

FINANCIAL TIMES

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D 8523 B

Turkey: Ozal's
model for
future, Page 6.

World news Business summary

Reagan's plea on immunity rejected

The Senate Intelligence Committee has rejected President Reagan's request for limited immunity for Vice Admiral John Poindexter and Lt Colonel Oliver North, whose evidence is seen as the key to the Iran arms scandal.

The panel took no vote but reached a "general consensus" that immunity would be premature. The news followed a White House announcement that the President will enter hospital next month for urinary tract surgery. Arms disclosures, Page 5

Ortega seeks pardon

President Daniel Ortega of Nicaragua will ask the National Assembly to pardon Eugene Hasenfuss, the US citizen jailed last month for 30 years for gun-running, Information Minister Manuel Espinoza said. Earlier, President Ortega referred to another captured American, Sam Hall, as a "servant". The divided Congress, Page 24

Sweden frees Kurds

Four Kurds being questioned by police seeking the whereabouts of Swedish Prime Minister Olof Palme have been freed without charge. The continued questioning of a 6000 Kurd was said to be inconsistent with the Palme inquiry.

Athens strike battle

About 400 helmeted riot police armed with shields and batons broke through picket lines formed by striking Athens dockworkers who were trying to stop troops from removing rubbish. Five strikers were injured in fighting.

Former minister cleared

Former Interior Minister Edgar Franco was acquitted of misappropriation of the disbursements of DM 3.50m (2.7m) from a secret fund earmarked for buying the freedom of East bloc political prisoners.

Prisoners released

Right-wing Mozambican rebels released 57 foreigners taken prisoner during their protracted guerrilla war against Marxist government.

Karachi toll rises

Ten more people died and another 50 were wounded as the death toll from unrelenting ethnic violence in Karachi rose to at least 174, Page 4

DeLorean acquitted

Former carmaker John DeLorean, 61, was found not guilty on all counts in Detroit in the US Government's fraud and racketeering case against him. "Praise God," he said as the verdict was read.

Chernobyl visitor

British Energy Secretary Peter Walker flew to the Ukraine for the first visit by a Western minister to the Chernobyl nuclear power station since the radiation disaster last April.

French anti-terror bill

The French Cabinet approved a bill to abolish juries in all terrorism trials. The first Action Directe murder hearing had to be postponed because jurors were threatened.

UK witness claim

Malcolm Turnbull, lawyer for former British counter-espionage agent Peter Wright, claimed in the Supreme Court in Sydney that Britain's top civil servant, Sir Robert Armstrong, had been sent to Australia to lie for his government. Page 4

Peking Aids test

China plans to test for Aids for foreign students who have been in the country for more than a year and all new foreign students. "We cannot force them to take the test but will persuade them," a Health Ministry spokesman said in Peking.

European steel prices accord near

LEADING European steel producers are close to agreement on a further attempt to increase steel prices, to come into effect in April, according to Mr Heinz Krieh, chairman of Thyssen Stahl, Europe's largest privately-owned steel producer. Details, Page 24; results, Page 25

MR MICHEL Cassanese, governor of the bank of France, emerged yesterday by a narrow margin as the front runner to succeed Mr Jacques de Larosiere as the managing director of the International Monetary Fund (IMF) in an informal straw poll conducted among the fund's executive directors.

Wall Street

The Dow Jones industrial average closed down 17.85 at 1,318.31. Page 50

LONDON

LONDON shares edged lower and the FTSE 100 index closed 1.5 to 1,836.3 while the FT Ordinary index shed 3.5 to 1,275.1. Gilt edged on foreign demand. Page 50

TOKYO

After a strong start, share prices turned down, dampened by growing investor concern over their high levels. The Nikkei market average ended 85.30 lower at 18,477.77. Page 50

COFFEE

COFFEE futures market fell to 44-month lows yesterday, following last week's International Coffee Organization meeting at which re-introduction of export quotas was kept off the agenda. The March position closed at \$1,752.50 a tonne, down 63¢ on the day, the lowest level since August.

GOLD

GOLD fell \$2.08 to \$382.00 on the London bullion market. It also fell in Zurich to \$382.45 (\$393.75). In New York the February Comex settlement was \$385.30. Page 42

DOLLAR

DOLLAR closed in New York at DM 2,014.5; SF 1,707.5; FF 6,508.5; and Y163.57. It fell in London to DM 2,018.0 (DM 2,016.0); it also fell to FF 6.80 (FF 6.81); to SF 1,701.0 (Y163.57); and to Y163.50 (Y163.55). On Bank of England figures the dollar's index fell to 111.1 from 111.3. Page 43

STEELING

STEELING closed in New York at \$1.495. It remained unchanged in London at \$1.43. It fell in other markets to DM 2,882.5 (DM 2,887.5); to FF 9.44 (FF 9.435); to SF 2.4325 (SF 2.4375); and to Y234.00 (Y234.25). The pound's exchange rate index fell 0.2 to 68.8. Page 43

MATRA

MATRA, French space and electronics group, is giving up control of its watchmaking activities to the Japanese watch-making giant, Seiko.

CARLO DE BENEDETTIS

Geneva-based investment company, Societe Financiere de Geneve, said it agreed to pay \$27m for a 10 per cent shareholding in Compagnie de Banque et d'Investissement, Swiss private bank active in portfolio management. Page 25

CONSOLIDATED Gold Fields

has given the go-ahead for an AS7m (US\$8m) project to extend the life of its 38-per-cent-controlled Mount Goldsworthy iron-ore joint venture with Broken Hill Proprietary.

Vietnam clears way for new leadership

THREE of Vietnam's most senior leaders, responsible for taking the country through more than 30 years of Indo-Chinese wars and revolution, resigned yesterday. Their resignations, which came amid political and economic turmoil, appear to pave the way for a new generation of reformers to take the helm.

The resignations include Pham Van Dong, aged 80, premier for 30 years, a frail but popular folk hero who was always in the world spotlight during the war against the US and Le Duc Tho, 75, fourth in the hierarchy and one of the few senior statesmen in good health.

Le Duc gained worldwide prominence when he negotiated the Paris peace agreement with Dr Henry Kissinger leading to the US pullout from Vietnam and then refused to accept a share of the 1973 Nobel Peace Prize.

Truong Chinh, 79, Communist Party chief and President, a former hardline Marxist ideologue now widely regarded as a "pragmatist and reformer," also resigned.

The departure of the three, which may be followed by more resignations today, could clear the way for a new leadership of economic reformers and suggests that the old die-hards of Indo-China from the wars against the Japanese, French and the Americans have outlived their influence.

A new government is expected to be announced today at the final session of the sixth congress of the Vietnamese Communist Party, the first congress since 1962. The future party direction will become clearer once the new leaders are named. Last night it was unclear whether those who have resigned will lose all official posts or will retain some

INFLUENCE through more junior positions.

The resignations come after months of intense internal debate over how to revitalise the Vietnamese economy, with ideological hardliners pitted against those who advocate the introduction of limited market mechanisms.

The call for reforms was echoed dramatically on Monday when Party Chairman Truong Chinh apologised to the Vietnamese people and said that the nation's top leadership was responsible for the unemployment, waste, chronic shortages and inflation that have worked together to make Vietnam among the world's poorest countries.

Truong Chinh has served as party chairman for just six months since the death of former chairman

Le Duan in July. The three men who resigned, together with Le Duan, were close associates of Ho Chi Minh, the father of the Vietnamese revolution. The four provided 17 years of continuity in leadership after Ho Chi Minh's death in 1969.

The new party chairman is widely expected to be Nguyen Van Linh, a former party secretary of Ho Chi Minh City (formerly Saigon) who experimented with economic reforms there. Vice-Premier Vo Chi Cong and General Nguyen Giap, the military strategist, have each been mentioned as possible successors to the Prime Minister.

Although economic reform has been intensively discussed at the congress, little concrete has emerged. The moves toward economic reform and the changes in leadership appear to have the full backing of the Soviet Union, which



Pham Van Dong is believed to provide about US\$3m daily in aid. Moscow's delegate to the congress, Mr Yegor Legachov, Continued on Page 24

Murdoch triggers full bid for Asian newspaper

By David Dodwell in Hong Kong and Gordon Cramb in London

MR RUPERT Murdoch, the Australian-born media magnate, yesterday triggered a full bid for the South China Morning Post, the Hong Kong newspaper group reputed to be among the world's most profitable publishing enterprises.

The deal is expected to value the group at more than HK\$2.35bn (US\$301.3m).

Mr Murdoch has agreed to acquire an 18.9 per cent holding in the group from Dow Jones of the US, publisher of the Wall Street Journal, which will receive HK\$445m. With a 34.9 per cent stake purchased a month ago, this takes him to majority control of the Post and requires a public offer for the remainder.

The move follows Mr Murdoch's bid earlier this month for Herald and Weekly Times, Australia's largest domestic media group. The two initiatives indicate not only a return by Mr Murdoch to the Asia-Pacific region after a decade of expansion in Britain and the US, but also highlight his continuing willingness to invest in newspapers at a time when he has been establishing a reputation as a pioneer of satellite television.

Australian analysts last night linked the developments by pointing to the prime position enjoyed in their respective markets both by the Post, Hong Kong's foremost English language newspaper, and the Herald group, which publishes Melbourne's only afternoon newspaper and has widespread television and magazine interests.

In each case, moreover, asset disposals should partially offset the cost of the takeover. The ASI 8m (US\$1.19m) Herald offer is likely to be subject to Australian regulatory constraints which would bring the sell-off of as much as A\$800m worth of its businesses.

In Hong Kong yesterday it was established that key stakes in two other publications were set to change hands as a result of Mr Murdoch's deal with Dow Jones.

The US group has offered to pay HK\$195.8m for the 51 per cent stake in the Far Eastern Economic Review which it does not already own. Dow Jones was given the option to acquire full control of the weekly magazine as part of the original deal in which it acquired its minority holding in the Post.

In addition, Dow Jones has made an offer for the Post's 12.7 per cent stake in the Asian Wall Street Journal, which is published in Hong Kong and Singapore. The US\$1.1m price on the deal values the newspaper at \$16.5m.

Continued on Page 24

Nigeria and Paris Club agree partial debt rescheduling

BY MICHAEL HOLMAN IN LONDON

NIGERIA yesterday reached agreement with the Paris Club of Western creditor governments on the rescheduling of a substantial portion of its estimated \$22bn external debt.

The agreement which follows two days of talks in Paris is the latest in a series of moves designed to resolve the country's economic crisis, stemming in part from the sharp decline in earnings from oil, which accounts for around 90 per cent of export earnings. Receipts have fallen from a peak of \$25bn in 1980 to a forecast \$4.5bn this year.

Wide-ranging domestic economic reforms, including an effective devaluation of the Naira, won the approval in principle last September from the International Monetary Fund (IMF) for the Government's recovery programme. This in turn opened the way to the rescheduling of Nigeria's estimated \$22bn total external debt, beginning with an agreement last November for the rescheduling of \$3.5bn due to commercial banks, accompanied by a new \$200m loan.

The package has not yet received the 90 per cent level of support from participating banks required before it becomes effective, but most bankers involved believe it will be forthcoming.

Further backing for Nigeria's reform programme, one of the most radical in black Africa, has come

from the World Bank, which recently released the first tranche of a \$400m trade policy loan, in addition to a \$4.5bn project loan to be disbursed over three years.

Under the Paris Club agreement, announced last night in a statement from the French Finance Ministry, the country's medium and long-term debts accumulated before the end of 1983 have been rescheduled over 10 years, including a five year grace period.

Short-term debts accumulated before the end of 1983 are being consolidated over eight years, including a three year grace period, while those accumulated since the end of 1983 have been rescheduled over four years, including a one year grace period.

In its statement last night, the French Finance Ministry did not disclose the amount of debt affected by the rescheduling. However, earlier this year Dr Chin Okeke, the Nigerian Finance Minister, who led his country's delegation to the Paris Club this week, said that export credit agencies would be asked for a rescheduling of principal and interest on medium and long-term loans falling due, or in arrears, over the next four years, which amounted to \$4.5bn.

Nigeria would also request, he said, a deferred payment schedule for unpaid trade arrears, and back

interest due on such arrears, amounting to \$2.1bn.

The Nigerian Government has also said that it expects export credit agencies to re-establish cover for the country (suspended in 1984 because of mounting arrears in trade payments) should the Paris Club agree to rescheduling, and also to increase their exposure to Nigeria.

Yesterday's Paris Club rescheduling means that the complex economic recovery programme drawn up by the Government, in close consultation with the IMF and the World Bank, is now almost in place. One important area of concern remains.

Exporters to Nigeria who are not covered by export credit guarantee facilities have submitted claims worth some \$90m, dating back to the early 1980s, when the country's falling oil revenues led to a build-up in arrears in payments for trade.

The Nigerian Government agreed to issue promissory notes to cover the debt, but disputed the level of claims. So far notes worth only \$1.5bn have been issued.

Last October the Government announced that it would be unable to meet the terms of the notes. It told holders that it could not make the first repayment of the principal, due in 14 equal instalments, and is now seeking to renegotiate the period over which the principal will be paid.

SAS awards \$1.4bn airliner contract to McDonnell Douglas

BY KEVIN DONE, NORDIC CORRESPONDENT IN STOCKHOLM

SAS, the Scandinavian Airlines System, yesterday placed an order for 12 McDonnell Douglas MD11 long-range jet airliners in a deal worth at least \$1.4bn, the biggest single investment ever made by SAS in new aircraft.

The order marks another success for McDonnell Douglas this month. It follows the \$1bn contract placed by British Caledonian Airways for nine MD11 aircraft in early December and the \$500m order for five aircraft from Mitsui, the Japanese trading company.

British Caledonian became the launch customer for the new aircraft, which is still on the drawing board. McDonnell Douglas, which has said it wants launch orders for 20 aircraft, is expected to commit the MD11 to full-scale development and production by the end of the year.

The SAS order is a blow for the European Airbus Industrie consortium's rival four-engine A-340 long-range airliner project, and is expected to spark a new battle among the three leading aero-en-

gine manufacturers, Pratt and Whitney, General Electric and Rolls-Royce for the valuable engine orders.

SAS said yesterday that it had not yet selected an engine.

The airline said that the 12 three-engine MD11 aircraft would successively replace its present intercontinental fleet of 8 DC-10s.

The first aircraft will be delivered in March 1991 and deliveries will be spaced over the four years 1991-94. McDonnell Douglas will deliver the aircraft in two versions, one for 224 passengers and a large volume of cargo for the non-stop flight from Copenhagen to Rio de Janeiro, and a standard version for 260 passengers.

Mr Jim Carlson, SAS chief executive, said the MD11 fitted SAS's strategy for having smaller aircraft that can offer more departures with as many direct connections as possible.

SAS is continuing negotiations with McDonnell Douglas for options on further MD11s.

The orders are part of SAS's ambitious fleet replacement programme, which could eventually cost more than \$3bn.

During the early 1980s it must renew the bigger part of its European fleet of DC-10s and it is currently co-operating with Boeing on the development of the US aerospace group's planned propfan aircraft, the Boeing 77.

SAS is planning to increase its number of non-stop intercontinental flights from the Scandinavian capitals of Copenhagen, Stockholm and Oslo, and to add new destinations.

It currently has long-haul flights to New York, Los Angeles, Seattle and Chicago in the US, as well as Rio de Janeiro, Bangkok/Singapore and Tokyo.

It is negotiating a new route to Peking with the Chinese authorities, and is also seeking to reopen a service to the African continent, having been forced to withdraw its earlier service to Johannesburg.

Attention turns to Atlanta contract, Page 6

EEC cash crisis 'far worse than figures show'

BY QUENTIN PEEL IN BRUSSELS

THE CASH crisis of the EEC is far worse than appears in any official budget figures, with a financing gap between revenues and spending needs now more than Ecu 20bn (\$20.8bn), according to the latest annual report of the European Court of Auditors.

The outstanding liabilities at the end of 1985, which amount to more than half the Community's Ecu 36bn annual budget, are partly a result of unfunded spending commitments over several years, totalling Ecu 11.5bn, and partly the need to write off the value of much of the surplus EEC food stocks, estimated at Ecu 5.45bn on stocks with a book value of Ecu 11bn.

They also include a whole variety of hidden liabilities and obligations not entered into the consolidated annual balance sheet, for which the European Commission is accused of not giving "a true and fair view of the Community's actual financial situation."

The Luxembourg-based Court of Auditors, which presented its report to the European Parliament and the Council of Ministers this week, has the job of investigating the legality, regularity and sound financial management of spending in the EEC, the European Coal and Steel Community, and Euratom, the atomic energy community.

Its latest calculations, which err on the side of conservatism at least in so far as the food stocks are concerned, underline the accumulated financial crisis which the 12 EEC member states will have to deal with next year. The figures are also

already 12 months out of date.

The Court also calls into question the regularity of a variety of interest payments in the Community budget, including the failure to credit repayments, lack of budgetary authorisation for specific items and overpayment in some areas.

It says that while the bulk of spending on the Common Agricultural Policy was almost totally used, other areas actually got far less than intended: only 58.5 per cent of the allocation was spent by the end of the year on fisheries, and only 76 per cent on development co-operation.

The Court also challenges several member states - notably Italy, Luxembourg, France and West Germany - with refusing to open their books to see if they have properly collected and paid over their value added tax contributions to the EEC budget.

On food stocks, the Court calculates the total book value at the end of 1985 at Ecu 11bn - a 28 per cent increase over 1984. Cereals in public stores were said to be worth Ecu 3.82bn, butter Ecu 3.42bn, and beef Ecu 2.27bn.

However, the annual storage costs of the stocks amounted to Ecu 1.35bn, and the potential disposal costs, largely depreciation, Ecu 5.85bn. The report says the budget "provides for only a small part of the known loss of value of intervention stocks, thereby postponing the greater part of the loss to the budgets of later years" - exactly the

Continued on Page 24

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EUROPEAN NEWS

Chemicals industry faces key questions after Rhine spillage

A SWISS warehouse fire last month and the massive pollution of the river Rhine which ensued has created a climate for major change in Europe's chemical industry, Reuters reports from Zurich.

But, although the governments, political parties and companies involved are looking hard at the role of the industry and its effect on the environment, many businessmen and politicians doubt if the debate will provoke any fundamental policy shifts once the companies and regulatory agencies have re-examined and strengthened safety precautions.

The fire in November at the warehouse owned by the Sandoz company at Schweizerhalle, near Basel, caused up to 30 tonnes of toxic chemicals to flow into Europe's most important commercial waterway, decimating fish and plant life and endangering livestock on its banks.

But the blaze proved only the first in a series of accidents on the 1,300km river which stirred public concern and focused attention on the chemical industry as a whole.

Environment ministers from the Rhine nations and other European Community states are due to meet on Friday in Rotterdam at the mouth of the Rhine for a second time to work out better co-operation to prevent a repetition of the disaster and decide who should foot the bill for damage already caused.

President Alphonse Egli of Switzerland who will represent Switzerland in his role as Interior Minister, said the Rhine pollution had raised fundamental questions about the future of the chemical industry in Europe, just as the Chernobyl nuclear reactor catastrophe last April brought calls for an end to the use of atomic energy for generating electricity.

Mr Max Kaufmann of Sandoz's corporate strategy department said: "It is not as if in the night of Schweizerhalle we woke up and started to think. This is part of a continuing process."

But he, like officials of other companies, said the accident had accelerated their efforts on safety and set in motion a review of what prod-

ucts were being produced and where.

Governments have also been galvanised into studying whether to forbid production of certain dangerous substances and to monitor more carefully the ones still permitted.

The chemical industry employs some 2.1m people with an annual wage bill of \$40bn. And its products, in addition to poisons and plastics, include fertilisers increasing food production and pharmaceuticals contributing to world health.

Big as they are, the three Basle giants - Sandoz, Ciba-Geigy and Hoffmann-La Roche - are dwarfed by BASF, Hoechst and Bayer further down the Rhine in West Germany, which rank among the top four chemical producers in the world. And almost all European states have substantial domestic chemical plants.

Sandoz, which suffered the worst publicity, has perhaps been working the hardest on its safety review in the aftermath of the Rhine pollution.

It narrowly escaped having large stocks of the deadly gas phosgene emitted during the fire and has decided to stop using it in production of points at Schweizerhalle, where it had been consuming up to 200 tonnes of the substance annually.

It still needs about five to 10 tonnes for pharmaceutical production in Basle, but the company said stocks would be kept at a minimum and stored under the strictest security.

Sandoz also reduced output of phosphoric acid by 60 per cent to cut down on the amount standing in warehouses waiting to be used and presenting a major safety problem.

At Ciba-Geigy, a spill of the wood-killing strazine into the Rhine at Basle hours before the Sandoz fire led the company to speed up plans to discontinue production of the chemical in heavily populated central Europe, moving it to a more secure location in North America.

In West Germany, where a series of accidents followed in the wake of the Sandoz fire, the companies involved all reviewed their safety measures.

Commission studies how to help merchant shipping

BY WILLIAM DAWKINS IN BRUSSELS

WILL DAWKINS IN BRUSSELS THE EUROPEAN Commission yesterday launched an "urgent study" into further proposals to ease the plight of the EEC's dwindling merchant shipping fleet.

Officials say the investigation is likely to cover possible measures to iron out disparities in operating conditions between EEC ports, rules on state aid to prevent ports outbidding each other for traffic unfairly, and the feasibility of joint EEC agreements with non-Community shipping authorities.

The study has been made possible by the agreement a day earlier between the Commission's 12 transport ministers on the basis of a maritime policy, thereby adding the missing third element to attempts to agree policies for air and road transport.

The four-point package will liberalise shipping services within the Community (though not, crucially, along individual member states' coastlines), allow EEC ships formal redress against unfair pricing and lay down a code for joint action against non-member states' restrictions on access to ocean cargoes.

Mr Dominic Peugniez, secretary general of CAACE, the European shipowners' association, yesterday greeted the agreement as "a very significant step forward that will benefit all our members."

Until now, member states have regulated their own shipping industries independently. The fact that they managed to agree on such wide-ranging measures only two years after their proposal by the Commission is a mark of a growing powerlessness to defend their own positions against the dramatic decline in European shipping.

According to trade figures, the EEC's share of the world

	WORLD MERCHANT FLEET			
	Percentage share	Open registry countries	Commonwealth	Others
1970	32.3	19.0	4.1	8.2
1975	30.7	25.8	5.5	9.2
1980	29.4	24.5	5.8	14.9
1982	21.5	28.1	6.4	21.6

Source: Euratop

merchant fleet has slipped from just under a third in 1970 to 21.5 per cent last year, while the combined share of Commonwealth and developing countries has grown over the same period from 14.3 per cent to 28 per cent.

The Soviet Union, East Germany, Poland and Taiwan have been particularly active since the turn of the decade in undercutting their EEC competitors on freight rates. The recent package will allow Community shippers to apply for

the imposition of anti-dumping measures where they feel they are being wrongly underpriced. It shippers also suspect they are being unfairly elbowed out of ocean cargo business by third countries, they can also apply for co-ordinated action, which would begin with diplomatic pressure for special permits, quotas, or punitive duties.

In this respect, the package does have one unfortunate weakness. Ministers were

unable to agree on Commission proposals to shut the right, known as cabotage, for member states to restrict to national carriers cargoes carried between ports along their own coastlines. "If we don't get an agreement on internal cabotage, it is going to be very difficult to get agreements with third countries," pointed out one Commission official.

This proposal, which is supported by the UK—where no cabotage rights exist—but opposed by southern member states, which have taken the brunt of the shipping recession, has now been handed back to national officials to seek a way to bring the two sides together.

The agreement, however, is more radical when it comes to external shipping arrangements between EEC partners. It will allow EEC vessels to offer services between two other member states as from December 31 1989, allow the same

freedom between EEC ports and third countries after December 31 1991—and in a gesture to shippers outside Europe, will permit non-EEC vessels to offer services between Community ports and third countries after January 1 1993.

This will mean, for instance, that a Greek ship will be permitted to ferry a cargo from Athens to Brindisi, reload and proceed to Marseilles. Formerly, it would have been forced to return home empty. Equally, it will be allowed to proceed from France to a non-Community port with a new cargo.

While all this amounts to an important liberalisation of an otherwise restrictive industry, nobody is predicting that the agreement will be a quick panacea. Says one EEC official: "We should at worst be able to ease the situation and at best make significant improvements."

Eureka projects worth £525m approved by European ministers

BY SARA WEBB IN STOCKHOLM

ARTIFICIAL TOMATO seeds, "smart" windows, advanced chips and more secure information systems are a few of the new projects formally given the seal of approval at the Eureka ministerial conference here yesterday.

Altogether, 37 new projects worth Ecu 730m (£525m) were announced yesterday as part of the bid to encourage industrial co-operation between Western European countries in the research and development field in the face of Japanese and US competition.

Thomson, the nationalised French defence and electronics group, and SGS, the Italian semiconductor manufacturer, have the lion's share of the new projects with their plan to develop a new generation four-megabit Epram chip.

The Epram (Erasable programmable read-only memory) chip project will cost Ecu 400m over the next five years. The companies hope to reduce the time taken to introduce four-

megabit and 16-megabit chips on to the market and aim to capture 20 per cent of the world market by 1995.

Eureka, which was launched in July 1986, has so far approved 109 projects worth an estimated Ecu 3.5bn in total. Another 44 projects are in the pipeline.

Mr Thage Peterson, the Swedish Industry Minister who has held the chair for the fourth Eureka ministerial conference over the past six months, said "the results from Eureka have been excellent to date. The build-up phase is now behind us."

However, he said that ministers had recognised the need to increase efforts to do away with obstacles to trade between the 19 participating countries and to increase contact with European trade.

Information technology projects have dominated the Eureka approved list "projects at all levels of high technology have been approved, but there has been an uneven distribu-

tion," said Mr Peterson. However, he added that small and medium-sized enterprises are now playing a more significant role in Eureka.

Recent doubts cast on whether Eureka projects could eventually have military applications were not dispelled when Mr Ingvar Carlsson, the Swedish Prime Minister, pointed out that even an efficient truck could be used for military purposes.

Spain now takes over the chair from Sweden for the next nine months.

Mr Carlsson told a news conference after opening the talks that Europe had considerable research resources but failed to combine them intelligently. "This is what Eureka is all about. If we don't do this, we will be totally dependent on the US and Japan," he said.

He told ministers that Eureka was making healthy progress, but was entering a stage where its existence would be put to the test.

Mediator sought in AFP dispute

By George Graham in Paris

FRENCH GOVERNMENT officials are seeking a compromise to end the week-old strike at Agence France Presse, the national news agency.

The appointment of a mediator is being sought in an effort to bring the striking employees back to work, but senior journalists yesterday stepped up their pressure for the resignation of AFP's chief executive, Mr Henri Piget, whose plan for restructuring the agency sparked the strike.

An extraordinary meeting of the agency's board is due to take place today. One possible candidate as mediator or as a replacement for Mr Piget is Mr Claude Lambert, editorial director of the weekly news magazine Le Point, said yesterday that he wanted nothing to do with AFP. Officials said the most likely mediator was Mr Jean Marchais, who headed the agency from 1984 to 1975.

The Government has not yet released the FFf 60m (£6.3m) needed to allow AFP to balance its books for 1986. Without these funds, the threat hangs over the agency is that an official receiver might have to be appointed.

Mr Piget's restructuring plan involves the loss of around 300 jobs out of a total of 2,400, including some 150 journalists and aims at returning to break-even point by 1989.

It involves the transfer of several of AFP's foreign language services away from Paris, including the relocation of the German desk in Bonn, the Middle Eastern desk



Mr Raymond Levy (left) shakes hands with his successor as managing director of Cockerill-Saunders, Mr Philippe Delemaux. Mr Levy's appointment as head of the Renault motor group was confirmed yesterday by the French Government and he is expected to take over this week.

Spanish students press for education changes

BY DAVID WHITE IN MADRID

TENS of thousands of Spanish high school and technical college students, taking up the rhythm of the recent student protest movement in France, demonstrated in Madrid and in other towns across Spain yesterday to press demands for easier and cheaper access to universities.

In most Spanish provinces, a majority of secondary schools were brought to a halt by the student strike movement, which has built up over the past few weeks.

The protests were backed by Spain's two main trade union organisations, the Communist

led Workers' Commissions and the Socialist UGT, as well as by parties to the left of the Socialist Government and some teachers' unions.

The school students want the Government to scrap selection procedures for university entrance, to lower fees, and to maintain September examinations for those who fail in the summer. The Government has said it never intended to do away with the second-chance examinations but insists that universities do not have enough space to accommodate all who complete their secondary education.

Cuts voted in Swiss bank taxes

BY WILLIAM DUFFLORCE IN GENEVA

THE LOWER chamber of the Swiss parliament yesterday ordered the Federal Council (government) to meet the Swiss banks' demands for relief from stamp duty and other charges on their trading in shares, bonds and other financial instruments. It felt action was needed to preserve the competitiveness of Switzerland as a financial centre.

Mr Otto Stich, Financial Minister, had argued that until compensating sources of revenue could be found, the council could not offer more than the relatively minor cuts in taxes on some money and gold transactions announced in September.

Stamp duty is expected to contribute some Sfr 2bn (£20m) or close to 10 per cent of total revenues this year. The Swiss banks have dismissed suggestions that their earnings be taxed more heavily to compensate the Treasury. They argue that the increase in business likely to arise from cuts in stamp duty will in itself generate greater taxable income.

In practice the Federal Council can be expected to come to terms with the banks on a step-by-step reduction in the charges which the bankers claim are forcing Swiss banks to lose business to foreign centres, in particular to London but also to

Frankfurt and Amsterdam. One of the most controversial charges is the 0.5 per cent duty levied on foreign-to-foreign securities business done through Swiss intermediaries, which provides the Treasury with about Sfr 1bn a year.

In the motion passed yesterday the lower chamber proposed that this charge be reduced by at least half. This would encourage institutional investors to make greater use of Swiss banking services.

The chamber also pointed to cuts in charges that could open the way for a proper Swiss money market and to a revival of Eurobond business in Switzerland.

Kohl stills left-wing protests

BY DAVID MARSH IN WOLFSBURG

MR HELMUT KOHL, the West German Chancellor, at an election rally in the car workers' town of Wolfsburg yesterday, told barracking young left-wingers that they had nothing to lose but their pensions.

Mr Kohl, comfortably ahead in the opinion polls leading up to the general election on January 25 served up a mega-debacle feast of homely homilies which sent most of the attending youthful protesters slinking discontentedly out of the hall well before his address was over.

He chose Wolfsburg, home of Volkswagen and only a few miles from the East German border, to deliver a speech on Tuesday in which he came out firmly on the side of optimism. Americans, mothers, children, the German army, scientific research and monetary stability.

He spoke out against Angst, the policies of the opposition Social Democratic Party (SPD) based on "class war, jealousy and hate" and, of course, against that arch-German enemy, insecure pensions.

Underlining that West Germany was the only major country which had to lengthen consecutive periods because of the falling birthrate, Mr Kohl

said the financing of future pensions would be "one of the most important" tasks after the election.

Young people had to listen. Their future pensions, because of the inverse age pyramid, were not paid for by Mr Kohl said. As if this were not already enough of a knock-out, Mr Kohl took the gloves off in earnest and followed it up by calling on more young people to start their own businesses.

The group of noisy youths in the back of the hall—said by Mr Kohl's aides to be members of extreme left groupings which regularly follow the Chancellor and enliven his meetings—had already been warned.

At the beginning of his speech, Mr Kohl called on the audience—mainly middle aged and elderly supporters of his Christian Democratic Union (CDU) party—to disregard the heckling from "pubertal trouble-makers" and underlined that the battery of powerful loudspeakers was on his side. So it was to be. The technology of broadcasting Mr Kohl's big, imperious tones at catall-drowning levels across the hall proved powerful enough to eclipse as well as his supporters' angry cries of

"Schweinerei" directed at the protesters.

The address was similar to the other 60 campaign speeches Mr Kohl will have made by January 25. But the closeness of the Iron Curtain, lent weight to his remarks refusing "Soviet hegemony" and calling (at some undetermined time) for an end to the division of the German nation.

FINANCIAL TIMES
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WOOLWICH 1986

ASSETS
UP 15.3% TO
£7,827m

SERVICE

HOME LOANS
UP 22% TO
£1,829m
lent to over 62,000 families

SERVICE

NET RECEIPTS FROM INVESTORS
£591m

SERVICE

APPROVAL GIVEN TO PROVIDE NEW SERVICES

SERVICE

Facing the future with confidence

Points made by the Chairman, Mr Alan McIntosh, C.A., in his address to the 139th Annual General Meeting held on 16th December 1986.

Results. 1986 was yet another year in which the Society broke new ground in terms of the volume of its business. This was a considerable achievement in the context of the ever-increasing competition in the marketplace and the additional pressures imposed by the need to prepare for new legislation.

Assets increased during the year by £1,036 million to £7,827 million. At the year end the Society had 2.76 million investment accounts and 363,000 borrowers. Lending increased by 22% helping more than 62,000 families to buy their own homes.

Increase in Reserves. At the end of the year the Society's surplus was £65.5 million, taking the general reserve to £319.4 million, equivalent to 4.08% of total assets, the highest ratio recorded by the Woolwich in the last quarter century. This is the most reassuring of the figures, not only because of our prime objective of enhancing the Society's financial strength and security, but also because of the need for a higher capital base on which to build new services for the future.

Building Societies Act 1986. The Chairman welcomed the Building Societies Act and the opportunities it affords for societies to compete more effectively. He said that the Society did not propose to use all the available powers immediately, but pointed out that it now had the ability and the flexibility to respond to the demands of customers and the marketplace. He reassured members that no new powers would change the face of the Woolwich irrevocably. The greater part of the business would continue to be concentrated in the traditional saving and mortgage lending services, that had been provided so successfully for so long.

The Future—The Chairman concluded: "These are, indeed, changing and challenging times. However, at the Woolwich we look forward to the new era with the greatest confidence in the Society's financial and business strength, and with a determination to distinguish the Woolwich from other institutions by the excellence of the services we offer."

The Special Resolution proposing the adoption of new powers under the Building Societies Act 1986 was carried by an overwhelming majority.

Copies of the Annual Report and the full text of the Chairman's Address are available from the Secretary, Equitable House, London SE18 6AB.

W
WOOLWICH
EQUITABLE BUILDING SOCIETY

OVERSEAS NEWS

UK Attorney-General accused of dishonesty and contempt in MI5 case

SIR MICHAEL HAYES, the UK Attorney-General and senior law officer in the British Government, was yesterday accused of dishonesty and contempt over the MI5 spy memoirs case now being heard before the New South Wales Supreme Court.

The controversial accusations, made by the lawyer for author Peter Wright and hedged with few qualifications, shifted the spotlight of responsibility for Britain's much-criticised conduct of the case directly into the political sphere—up to and including Mrs Margaret Thatcher, the Prime Minister.

In an increasingly sensational hearing, the UK Government has been trying to prevent Heinemann Australia publishing the memoirs of Mr Wright, who retired 10 years ago as the British security services chief "mole-hunter" and now lives in Tasmania.

Yesterday's developments came during final submissions from Mr Malcolm Turnbull, Mr Wright's counsel. They were part of a wider attack on the British case and, specifically, the credibility of its chief witness, Cabinet Secretary Sir Robert Armstrong.

Chris Sherwell reports on final arguments in court battle over former spy-hunter's memoirs

According to Mr Turnbull, Sir Robert's evidence and demeanour "showed him to be a man with no regard for the truth, rather a man determined to say whatever he felt would advance the Government's cause, regardless of its truth or falsity."

Mr Turnbull's allegation sprang from the British Government's key decision not to act against Chapman Pincher's 1981 book which first revealed that former MI5 chief Sir Roger Hollis had been investigated as a possible Soviet "mole". Mr Turnbull contends that the Government effectively authorised the book.

At an early stage in the case, Sir Robert stated it was the Attorney-General who had advised there was no basis for action against the book. Subsequently, he admitted this was incorrect and confessed he had misled the court.

Yesterday, Mr Turnbull denounced Sir Robert's evidence as "worthless". The Cabinet Secretary was the "classical fall guy... a man sent abroad to lie for his country," Mr Turnbull said.

But the real responsibility for his "disgraceful" conduct lay with "those in London who sent him here to lie and dissemble to this court."

For Mr Turnbull, that, in the first instance, meant Sir Michael Hayes, the British Government minister with the formal responsibility for bringing the case before the Australian court.

Referring to Sir Robert's evidence prior to his admission that he had misled the court, Mr Turnbull said both Sir Michael and the Prime Minister had failed to use opportunities to tell the truth.

Though they had soon known what Sir Robert had said, they did not tell him to correct his evidence. "The only conclusion from these facts is that Sir Robert and Sir Michael were

told to tough it out and maintain the deceit," Mr Turnbull alleged.

According to Mr Turnbull, it was only a week later—following pressure in the House of Commons from Mr Neil Kinnock, leader of the opposition Labour Party—that Sir Robert was told to tell the truth.

"The court should take the gravest view of the evidence concerning the Attorney's role in the Trade in Treachery affair," Mr Turnbull insisted.

It was impossible to believe that Sir Robert, together with Treasury Solicitor Mr John Bailey and Mr Bailey's deputy, Mr David Hogg, had not checked the answers given by Sir Robert which had implicated the Attorney-General personally, Mr Turnbull went on.

The best construction which could be placed on answers given to the court, he said, was that "Sir Michael Hayes allowed Sir Robert Armstrong to give evidence in New South Wales which Sir Michael knew was false."

"In other words, if Sir

A legal ban on the distribution in England and Wales of the memoirs of former MI5 officer John Miller was challenged in the High Court in London yesterday.

Turnaround Distribution Ltd and two bookellers asked Mr Justice Simon Brown to discharge an injunction he granted to Sir Michael Hayes, the Attorney-General, last month. The judge said he would give judgment this morning.

Robert, Mr Bailey and Mr Hogg were honest and careless fools, then Sir Michael Hayes was guilty of the worst form of dishonesty. He allowed another man to lie on his behalf and did nothing to correct it."

This conduct was doubly grave, given his status as Attorney-General, Mr Turnbull contended. If Sir Robert was innocent of any deceit, then Sir Michael's conduct was "so dishonourable" it was a matter the court should take into account if it considered Sir Robert's credibility.

As to why Sir Robert should have "lied" to the court, Mr Turnbull said it was believed in Whitehall that attributing decisions to the Attorney-General would be accepted without question because of his special status.

"There was always a chance the court would accept this version of events, so long as the Attorney-General was prepared to take the rap. Once the pressure got too great, the truth emerged."

Sir Robert's credit was irreparably damaged, Mr Turnbull claimed, and his evidence could carry no weight. "It was held up as the considered views of the greatest civil servant in England, speaking on behalf of the first law officer."

"By any test, both men behaved with a distinct lack of candour. They have held this court in contempt. Their evidence is worthless."

Whether Mr Justice Philip Powell will accept all this remains unclear. One important sign of his thinking yesterday came during Mr Turnbull's argument concerning Sir Robert Armstrong's credibility.

"It may be that in the long run, I will come to accept your

view of Sir Robert," he said. "My inclination at the moment is against accepting the view that Sir Robert's evidence was deliberately and consciously misleading."

If he did decide that the evidence was of no use, he went on, this would be because "it really didn't carry the quality, authority and detail that was needed... In the long run, that would not lie to the fault of Sir Robert, but to those in Downing Street."

The judge must also decide whether the evidence supports the type of conspiracy implied by Mr Turnbull. The fact of Sir Robert's admission, made following Sir Michael Hayes' complaints, may be seen as undermining the force of his allegations.

At one point during Mr Turnbull's submissions on Sir Robert Armstrong, Mr Justice Simon, QC, asked for the UK Government, leaping to his feet, saying it was "gross professional misconduct" for an attorney to express personal views in court, and he suggested Mr Turnbull was immune from possible defamation actions.

Mr Turnbull also dealt in detail yesterday with the British contention that Mr Wright is bound not to disclose information because of life-long obligations stemming from his work for MI5.

There was no contract, and no sense in saying Mr Wright had a fiduciary obligation, Mr Turnbull said. Moreover, the indirect enforcement of a penal law such as the Official Secrets Act could not be allowed.

As for the detriment which Britain claimed it would suffer through the publication of information by an "insider," Mr Turnbull heaped derision on the distinction between an "insider" and an "outsider."

As he put it, an air force officer drawing plans for a cruise missile from memory 10 years old was unlikely to be as accurate as a journalist who had obtained them from an "insider" source currently working in the same force.

Mr Turnbull continues his submissions today and is only likely to finish on Friday. Mr Simon has the right to make further submissions in response before the judge retires to consider his decision.

Egypt wins reprieve on US debt

BY TONY WALKER IN CAIRO

EGYPT, which is suffering from acute financial problems, has been given a partial reprieve on its crushing military debt to the US following Washington's decision to allow borrowers to restructure repayments on more favourable terms.

Egypt will be entitled, under measures announced this week, to renege its military debt to the US of \$4.3bn (\$3bn) at prevailing commercial interest rates of about 7.5 per cent instead of the average 12 per cent at which it borrowed the

funds between 1979 and 1984. Egypt's repayments on its military debt of about \$500m annually will be reduced by about \$200m, as a result.

However, Egypt, like other US military debtors, will eventually have to pay the difference between the rate at which it borrowed and the new more favourable interest rate.

It will also have to pay interest on the deferred portion, meaning that at the end of Egypt's military debt repayment period in 2009 there will be a

substantial residual amount to be settled.

Announcement of the new military debt restructuring coincides with discussions in Cairo between Egyptian officials and Mr Peter McPherson, head of the US Agency for International Development (AID), on Egypt's proposals to reschedule its foreign debt and its negotiations with the International Monetary Fund, which appear to be making progress.

Egypt's debt is expected to be

the subject of informal discussions at the Paris Club this week as a prelude to more detailed negotiations in the New Year.

Meanwhile, indications from Washington are that an IMF team will return to Egypt in January for talks on reforms of the Egyptian economy as the price of IMF assistance.

According to the latest IMF report, Egypt's debt reached \$88.6bn at mid-year. Arrears of debt service payments grew from \$800m in mid-1982 to \$4.4bn this year.

Karachi riot death toll rises to 170

By Mohamed Afzal in Karachi

The death toll in Karachi's ethnic fighting yesterday increased to 170, with the recovery of three bodies from the city's riot-torn areas, while the total number of injured for the past four days rose to 635, doctors in various hospitals said.

Only minor clashes occurred yesterday, and these left 35 injured, some with stab wounds, according to the doctors. Lashkari, Korangi and Federal Area were the scene of the violence, which entered its fourth day since clashes began last Sunday.

Doctors said that nearly 90 per cent of the dead and injured belong to the Urdu-speaking Mohajir community, while the remaining are Pathans attacked Mohajirs.

Sunday's riots flared when several hundred rioting Mohajirs attacked Mohajirs. Thousands of soldiers continued patrolling nearly two-thirds of Karachi, to ward off any major resumption of ethnic rioting.

Caravans were twice lifted for two-thirds of two hours each, for the first time since Sunday, to enable people to buy food. Late last night, troops opened fire on curfew violators, killing two and injuring four.

South African 'abducted from Swaziland'

Police in Swaziland yesterday reported that another group of armed raiders believed to have come from South Africa abducted Mr Roy Zahra, a South African Indian, from an isolated Swazi rest camp, our Foreign Staff writes.

The reported raid follows last week's similar attack in which two Swiss citizens were abducted, interrogated in Swaziland and then returned after protests from both Switzerland and Swaziland.

Meanwhile, South African police yesterday said three men were arrested and confiscated after they intercepted a light truck at a Swaziland frontier post on Monday.

British trades unions are taking legal advice on whether to challenge in South Africa a decision to ban material produced by the British Trades Union Congress on the issue of apartheid, Philip Bassett writes.

Palestinians give way on power company

THE JERUSALEM District Electric Company, the largest remaining Palestinian enterprise in the Israeli-occupied territories has reluctantly agreed to surrender part of its historic electricity supply Israel Electric Corporation, writes Andrew Whitley in Jerusalem.

In return for giving up 5,000 Jewish customers living in Arab East Jerusalem and the West Bank, steps will be taken over the next six weeks to resolve the Palestinian utility's pressing debt of \$18m (\$11.3m) to the Israeli Government.

A symbol of lingering Palestinian hopes that, one day they may have their own homeland again, its admission of partial defeat in this long-running dispute with the Israeli authorities is certain to generate considerable anger among Palestinians.

Moroccan debt
The \$1.6bn (\$1.13bn) worth of Moroccan debt which Morocco and its international bank creditors have agreed to reschedule carries a margin over the interbank rate of 1½ per cent and not 1½ per cent as published in the Financial Times on Tuesday.

Kenya takes advantage of windfall in resources

BY VICTOR MALLET RECENTLY IN NAIROBI

KENYA's economy, already the envy of less successful African countries, is riding on the crest of a wave. The price of imported oil remains low, coffee exports are booming because of drought in Brazil and hotels are packed with tourists.

"We have not enjoyed such a favourable combination of economic events since the mid 1970s," Mr George Saitoti, Finance Minister, said in his budget speech. "What we are enjoying is a temporary and probably in 1987, are windfall resources that have afforded us a chance to work on our long-term structural problems."

The Kenyan Government is looking for an average annual economic growth rate of 5.6 per cent up to the year 2000, compared with 0.9 per cent in 1984 (a year of drought), 4.1 per cent last year and an estimated 4.5 per cent in 1986.

The figures are not quite as good as they look. Kenya now has an average of eight children each and the population of 20m is growing by four per cent a year, one of the highest rates of increase in the world.

"We as a nation need to improve Kenya's investment climate and attract both domestic and foreign investment on terms that contribute to renewed growth and employment creation," said Mr Saitoti in June, anticipating a surge in private investment this year.

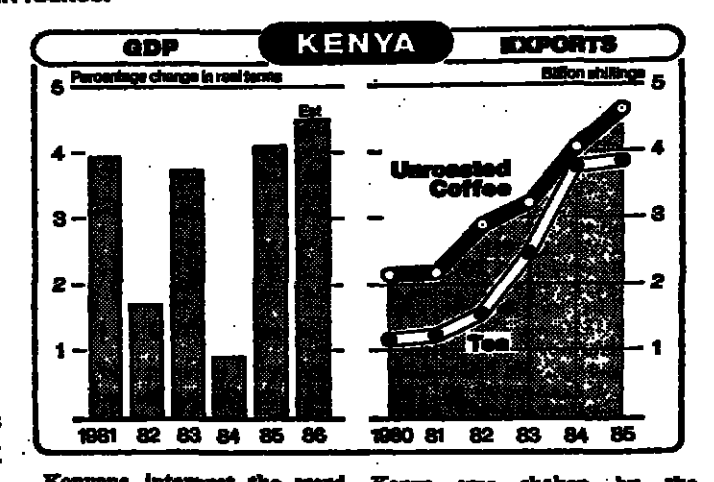
But no such surge has materialised and the stagnant state of foreign and domestic investment has begun to cast doubt on whether long-term economic growth can outstrip the rate of population increase.

Foreign investments flowing into Kenya—British companies have the largest stake with about 15bn invested—are thought by economists to be matched by investment outflows, although investment in a few companies has begun or expanded operations but others, including Firestone, Mobil and Cadbury-Schweppes, have been disinvesting over the last few years and selling to local buyers.

Government ambivalence towards foreign business is partly to blame. The talk of "Kenyanisation" has now turned to "indigenisation." Clearing and forwarding agencies have been told to secure majority Kenyan ownership, although President Daniel arap Moi's demand earlier this year that foreigners must have at least a 51 per cent interest in new joint ventures to African Kenyans has been officially brushed under the carpet as nothing more than a long-term goal.

Government ambivalence towards foreign business is partly to blame. The talk of "Kenyanisation" has now turned to "indigenisation." Clearing and forwarding agencies have been told to secure majority Kenyan ownership, although President Daniel arap Moi's demand earlier this year that foreigners must have at least a 51 per cent interest in new joint ventures to African Kenyans has been officially brushed under the carpet as nothing more than a long-term goal.

Long-standing confidence in



Kenyans interpret the word "indigenisation" as excluding local whites and Asians. Yet the 70,000-strong Asian community, already jittery about the remote possibility of a coup d'état, dominates important sectors of the Kenyan economy and could make a vital contribution to the growth of domestic investment.

Other obstacles to increased investment in Kenya include price controls which limit profits, complex bureaucratic problems for new investors and a shortage of incentives to compete with other investment-hungry developing countries.

Businessmen say the Government should have taken advantage of this year's favourable economic conditions to ease price controls substantially and thus risk a politically sensitive step in good times rather than bad.

By African standards the outlook is far from gloomy. While the possibilities for import substitution of consumer goods are virtually exhausted—Kenya imports only 15 per cent of its consumer products—there are opportunities for investment in export industries and production of intermediate goods.

Kenya, an industrial leader like Zambia in the south, stands to gain from any improvement in trade between black African countries and prospects have brightened since the return of a relative calm to neighbouring Uganda.

Comprehensive sanctions against South Africa, however, could deprive Kenya of as much as \$50m a year in landing fees and other benefits from airlines on their way to Johannesburg. Kenya's loss might be partially offset by increased trade with countries now dependent on South African goods and services.

Long-standing confidence in

Kenya was shaken by the failed coup attempt involving members of the airforce in 1982. Tension has eased since then, although unfounded rumours of trouble, sometimes reflecting apprehensions among Asians who bore the brunt of the violence in 1982, are frequent.

The Socialist Mwakanya Movement, accused of planning an anti-government guerrilla campaign, seem to have been stifled by detentions and continuing tribal animosities persist between Mr Moi's minority Kalenjin ethnic group and the powerful Kikuyu, while the influential Christian churches have angered some members of the Government by publicly criticising decisions of the ruling Kenya African National Union (Kanu), the only legal political party.

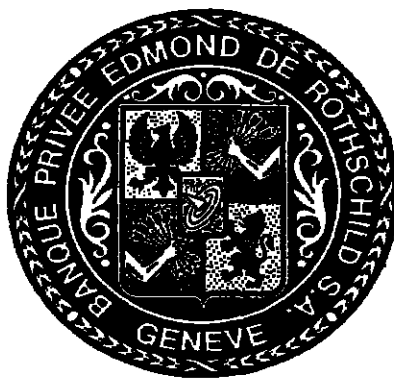
Kenya's short-term economic prospects are undoubtedly rosy. The Government says that inflation in 1986 could be as low as 6 per cent, half the forecast, and the country's total debt service ratio is set to fall from around 30 per cent. Agriculture for domestic consumption and export crops such as coffee and tea are thriving in good weather. Kenya is expected to show a balance of payments surplus of about \$125m in 1986, after a deficit of \$94m last year. Foreign reserves of \$400m are enough to cover three and a half months' imports.

Longer term prospects are uncertain. There are few signs that Kenya is breaking away from its "boom and bust" cycle based on volatile commodity exports, in spite of ambitious plans for industrial reform and an expansion of the informal sector. Nor has Kenya decisively tackled its population problem, raising the spectre of mass unemployment and its associated ills in the future.

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NOTICE IS HEREBY GIVEN pursuant to the terms of a Trust Agreement dated as of April 15, 1976 between Aluminum Company of Canada, Limited (the "Corporation") and The Royal Trust Company (the "Trustee") that the Corporation will on December 19, 1986 redeem the whole of its presently outstanding 9½% Debentures, due 1988, (the "Debentures") by payment in lawful money of the United States, to the holders thereof, of the redemption price stipulated in the conditions attaching thereto, namely, the principal amount together with interest on the said principal amount accrued and unpaid for the period from and including April 15, 1986 to but excluding December 19, 1986.

Payment of the redemption price will be made to the holders of the Debentures against surrender of the Debentures, together with the interest coupons pertaining thereto maturing after the redemption date. The face value of any missing uncashed coupons will be deducted from the payment. Payment will be made at the principal branch in Montreal of The Royal Bank of Canada and at the principal branch of The Royal Bank of Canada in London, England; of The Royal Bank of Canada (France) in Paris; of Deutsche Bank AG in Frankfurt-am-Main; of Société Générale de Banque S.A. in Brussels; of Banque Générale de Luxembourg S.A. in the City of Luxembourg; of Swiss Bank Corporation in Basle, Geneva, Lausanne and Zurich; and of Banca Nazionale del Lavoro in Milan and Rome.

The funds required for the payment of the redemption price will be deposited on or before December 19, 1986 with The Royal Bank of Canada. Should any of the holders of the Debentures fail to present their Debentures on or before December 19, 1986 or fail to accept payment of the redemption moneys payable in respect thereof or give such receipt therefor, if any, as the Trustee may require, then the said redemption moneys shall be set aside for any such holder with The Royal Bank of Canada. Such setting aside shall for all purposes be deemed a payment to any such holder of the sum so set aside; and to that extent the said Debentures and coupons shall thereafter not be considered as outstanding. The said Debenture holders shall have no other right except to receive payment out of the moneys so set aside upon surrender to The Royal Bank of Canada of their Debentures and coupons.

Notice is further given that interest on the respect of the Debentures will cease to accrue from and after the date above fixed for redemption.

All Debentures so redeemed shall forthwith be cancelled.

Montreal, November 18, 1986
Aluminum Company of Canada, Limited
Richard S. Porter
Secretary



AMERICAN NEWS

US 'gave big discount to Iran arms middlemen'

BY LIONEL BANNER IN WASHINGTON

THE US arms sold to Iran were sharply discounted to the middlemen involved in the deals, a member of the Senate Intelligence Committee probing the scandal said yesterday.

Mr William Cohen, the Maine Republican, suggested that the discounts might have been introduced to create inflated profits in the sales chain that could be used for other purposes, such as secret aid to Nicaraguan Contra rebels.

Mr Cohen spoke after a closed-door testimony from Mr Caspar Weinberger, the US Defence Secretary, who opposed the arms sales.

According to congressional testimony by Administration officials, Iran paid about \$30m for the arms, of which \$12.2m was reimbursed to the Pentagon. The \$12.2m for the weapons included more than 2,000 anti-tank missiles, is nearer a wholesale price.

One theory is that the US underpriced the weapons sold to middlemen who then charged a lot more to Iran. Some of the profits could then have been used for supplying the Contras.

Another theory is that the weapons were deliberately sold at a loss to Iran to create a demand for Pentagon weapons.

President Reagan's image in the polls is continuing to suffer from the arms scandal.

In spite of strenuous efforts by the White House to turn round public opinion, the latest CBS News/New York Times poll shows that President Reagan's job performance is 50 per cent, almost 30 per cent below ratings taken last September.

The President's tactic of seeking limited immunity for two key witnesses in the scandal — the sacked White House Aide Lt-Col. Oliver North and former National Security Adviser Vice-Admiral John Poindexter — met with opposition from leading senators and congressmen involved in House and Senate inquiries.

Lawmakers said that it was premature to grant immunity to the witnesses, ignoring Mr Reagan's claim that it was the fastest way to get the truth out into the open.

There were further bizarre revelations yesterday about the undercover role of Lt-Col North. The Los Angeles Times, quoting unidentified sources, said he had planned to free American hostages held in Lebanon not by selling arms to Iran but by kidnapping relatives of Iranian government officials.

Under the kidnap, the Iranians would be held in cages in Europe and then "crated back" to Iran once the Americans held in Beirut were released by the pro-Iranian guerrillas.

AP reports from Managua: President Daniel Ortega of Nicaragua has requested a pardon for US mercenary Mr Eugene Hasenfus, who is serving 30 years for ferrying arms to Contra rebels, the Sandinista Government announced yesterday.

It said the National Assembly would consider the request as quickly as possible.

US proposes merit-based pay for federal employees

BY NANCY DUNNE IN WASHINGTON

THE REAGAN Administration will propose a new system of granting pay rises to the 1.2m federal employees which would base increases on merit rather than time served.

According to the Washington Post, the Office of Management and Budget has proposed a scheme which would eliminate most pay increases given as employees advance almost automatically through various grades. About \$700m now set aside for automatic rises in the fiscal 1988 budget would be distributed instead for good job performance.

The proposal is likely to be strongly opposed by the government employees' union, and Congress has been wary of any

GNP rise revised to 2.8%

THE US Gross National Product, after removing the impact of inflation, increased at a revised annual rate of 2.8 per cent in the third quarter, the Commerce Department said, better than the 2.5 per cent rise in the second quarter.

This was down from last month's estimate of a 2.9 per cent rise, but was above the 0.8 per cent increase in the

second quarter. GNP rose 4.1 per cent in the third quarter of 1985.

The downward revision amounted to only \$900m (\$638m) and reflected a number of small, mostly offsetting changes, including higher personal spending, a lower trade deficit, and smaller government purchases.

Venezuelan debt move

VENEZUELA has asked for a reduction in its interest rate margin as well as two-and-a-half years' grace on its \$2.1bn public sector debt rescheduling, signed last February, said Mr Jorge Marciano, Public Finance Director.

Mr Marciano was speaking to reporters shortly before returning to New York for further talks with Venezuela's 13-bank advisory committee.

The existing accord carries an interest margin of 11 per cent over the London interbank offered rate (Libor), no grace period or new money, and a repayment schedule of 12 years which would be lengthened to 15

under the Venezuelan proposal. Mr Marciano last week discussed the proposals with bankers, after the Government announced a new private debt plan. Creditors had insisted that a mechanism for paying the \$7.8bn debt should be in place before proceeding with public sector negotiations.

The International Monetary Fund has approved SDR 104.7m (\$127.5m) of loans for Bolivia, adding to a SDR 50m standby agreed earlier in the year.

The new package comprises SDR 64.1m of compensatory financing and a SDR 42.6m structural adjustment facility of which SDR 18.1m may be drawn immediately.

Defection of Quebec MP strengthens left-wing party

BY BERNARD SIMON IN TORONTO

CANADA'S left-leaning New Democratic Party has gained its first parliamentary representative from Quebec with the defection of an MP originally elected for the ruling Progressive Conservative Party.

Although the NDP has yet to win an election in Canada's only predominantly French-speaking province, the decision by Mr Robert Toupin to join the most ideologically committed of Canada's three main parties is widely regarded as an important breakthrough in the NDP's recent efforts to bolster its support in Quebec.

Mr Toupin, a controversial

MP who represents a rural constituency north of Montreal, has sat as an independent in the House of Commons since leaving the Tories last May in protest against the Government's pro-business policies.

Quebec, which elects 75 of the Commons' 322 members, is a key to electoral success in Canada. Hampered in the past by its identification with English-speaking trade unions and academics, the NDP has recently given high priority to building up a credible organisation in Quebec in an effort to capitalise on voters' disenchantment with the Tory Government.

SDI research team with a \$100m budget calls on scientists to look beyond the X-ray laser space weapon

Wanted: revolutionary ideas for Star Wars

THE OFFICE of Dr James Ionson is awash in bright ideas, pouring in at the rate of 2,000 a year. They run the gamut from pure genius to pure absurd.

They come from scientists soliciting a share of his \$100m research budget for 1987 for the Star Wars concepts of the next century; the ones which require a truly huge bound in imagination.

Dr Ionson is one of the six technical directors who share the technologies of the Strategic Defence Initiative (SDI) research programme in Washington.

His organisation conducts the US research and development programme into nuclear missile defence. Since the resignation last summer of Dr Gerold Jonas, as chief scientist, all six have effectively been scientific advisers to Lt-Gen James Abrahamson, director of the Strategic Defence Initiative Organisation (SDIO).

But whereas Dr Ionson's five co-directors are primarily concerned with mounting large-scale "public" demonstrations of SDI technologies — the lethal abilities of beam weapons or the efficacy of target acquisition, for example — his own responsibilities are for the experiments of the future, the ones that don't exist yet.

"Our investment is primarily in the human brain. We can get a lot of brains per dollar compared with the other directorates," he says.

Dr Edward Teller, eminence

grise of the SDI programme, has talked of this part of the programme as unclassified, innovative approaches that might advance the technology by one to two orders of magnitude — up to 100 times.

Dr Ionson, a youthful physicist in his mid-30s with a daunting academic record, was recruited to the SDIO from NASA's Goddard Space Flight Centre near Washington where he was running research into theoretical plasma physics.

He exudes boyish enthusiasm for the whole SDI programme and specifically for his own task — long-range research — representing 3-4 per cent of the SDI budget. The wealth and richness of technology that comes across any desk every day is very satisfying.

For example, his Innovative Science and Technology Office is deep into ideas for the next generation of lasers, beyond the highly classified X-ray lasers his co-directors are now trying to engineer into weapon systems.

He is excited by ideas for a gamma-ray laser, of still shorter wavelength and therefore of even greater penetrating power than X-rays. One idea he is funding aims to cook carefully selected ingredients in a nuclear reactor, to create a novel kind of crystal in which an immense amount of energy is stored.

Such crystals — called nuclear isomers — exist. The trick is to find a way of releasing their stored energy when, and only when, it is



David Fishlock, Science Editor, interviews Dr James Ionson (left), one of the six technical directors of the Strategic Defence Initiative.

Dr Ionson's Innovative Science and Technology Office is already examining ideas for the next generation of lasers, beyond the secret X-ray lasers that his co-directors are now trying to engineer into weapon systems.

which scientists are asked to undertake not to participate in his programme. "It's easy to turn down something you have not been offered."

He says the number of scientists whose ideas have been turned down by his office exceeds the number who signed the US petition. An attempt by British scientists in October to mount a similar petition even gave publicity to a Nobel laureate who has already foreseen his physics in favour of transcendental meditation.

"We're looking for revolutionary rather than evolutionary ideas — and they are hard to find," Dr Ionson says. Nevertheless, he is funding ideas at the rate of about 100 a year.

As a proportion of the proposals submitted, he claims it is comparable with the experience of the National Science Foundation, which funds academic science in the US.

But 10 times as many ideas have been flooding in from US scientists as from those overseas. So far he has funded fewer than a score from abroad, mostly in Britain (12) and Israel. A document his office is drafting should make it simpler for scientists to discover his needs, he says.

How does Dr Ionson feel about the objectives and prospects for success of the SDI programme? Two doyens of the US science scene

proposed last month that the entire programme should be submitted to peer review by "a panel of America's most distinguished scientists, statesmen and military people."

"I believe in the programme," Dr Ionson says with conviction. Whether SDI will work depends upon how the political and military requirements are defined.

He believes it will become possible to begin to deploy an SDI defence by the early-1990s and to have it in place by the end of the century.

It would not be a beam weapon defence, however, but one based on kinetic energy weapons, both space-based and ground-based. Such weapons use no explosives but depend on the energy dispersed in an extremely high-speed collision between "rock" and target to blow the target apart.

A more robust defence, designed to accommodate a major enhancement of the Soviet ballistic missile armoury, would need the still faster beam weapons and a battle management system of commensurate speed, suggesting computing power which simply does not exist today.

Dr Ionson is dismissive of those who simply estimate the number of lines of computer code such a system may need and declare the aggregate "impossible." They simply don't have the imagination he is seeking, he says.

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WORLD TRADE NEWS

David Barchard reports on a Turkish joint venture scheme to attract foreign investors

Ozal model sets pattern for the future

IF TURKEY'S planners have their way, a decade from now the country's industrial landscape will be scattered with joint ventures built on a financial model designed by Mr Turgut Ozal, the Prime Minister.

The joint ventures are designed to attract an inflow of foreign investment, managers and technicians. Optimism is growing, for example, about Turkey's chances of reaching agreement with a foreign consortium to build an electrical power station.

Government officials say that talks are now entering their last lap and agreements to go ahead with construction could be signed as early as January.

Dr Yusuf Borkut Ozal, head of the State Planning Organisation, is expected to travel to the US shortly for talks with Eximbank about a \$400m loan for a project to build a 1,200 MW powerplant at Tekirdag on the Sea of Marmara, using imported coal.

A pricing formula for the sale of electricity from the plant has not been agreed yet, but the remaining area of disagreement is for how long the Turkish Government will be expected to come up with a subordinated loan if the project runs into

serious difficulties. The consortium is headed by Bechtel Corporation of the US. Brown Boveri and Company (BBC) are leading a consortium for a rival \$1,700m thermal power plant at Ambarli, and Westinghouse of the US, together with Seapac of Australia and Chyoda of Japan, are negotiating for a similar venture at Iskenderun on the Mediterranean.

Apart from the coal-fired power projects, Turkey is also negotiating a wide range of infrastructural projects with foreign companies on the Ozal build-own-transfer model, including an expansion of Istanbul Airport with a world trade centre for which six different consortia from the US and Europe are bidding; the third Bosporus Bridge; a new railway route between Istanbul and Ankara for which Softrah of France is bidding against a Japanese consortium; and a wide range of hydroelectric negotiations on 12 of these are already under way.

The build-own-transfer, or Ozal model, is a scheme to finance power stations and infrastructure projects whereby, instead of relying on traditional

turkey financing, a foreign consortium forms a joint venture



Ozal: designed the build-own-transfer scheme

with a Turkish state corporation. The joint venture finds the finance, builds the plant and operates it for an agreed period of 15 years during which it aims to recover its costs and make a profit. At the end of 15 years the plant is handed over to the Government.

Turkey favours the build-own-transfer model for several reasons. It enables a country

to engage in development projects it could not otherwise raise the cash for and is a form of foreign investment which may encourage other investment to flow into the country. Because management and construction companies are involved, projects built on this basis should go up more quickly than those built on a turnkey basis, and will be managed and operated by joint venture companies in which there is a foreign majority holding.

The main stumbling block has been the search for a water-tight formula which would guarantee both sides against political hazards, such as a change of government, and natural or man-made disasters. To win the agreement of foreign investors who will own 55 to 60 per cent of the equity of joint venture projects, Turkey has learnt over backwards as far as it can manage.

The deals will be denominated in baskets of foreign currency. Payment will be made to or from escrow accounts, preferably with banks based in Turkey. The Turkish partner in the venture will have a legal obligation to pay on time.

If the partner does not have the funds to pay, then the

Turkish Treasury must step in under a back-up agreement and make the payment to the escrow account. This will not be a sovereign guarantee, but the contract will be enforceable under Swiss law.

An insurance fund will be built up which, after four or five years, should be equal to the projects' outstanding debt. If a failure occurs during operation, this fund will automatically come into play. If there is a disaster or delay during construction, then the consortium will put up one year's stand-by finance and the Turkish Government will put up two more years of finance in subordinated loans, covering the project for a total of three years.

The drawback for Turkey is that the arrangement is at least 10 per cent (some bankers say much more) above traditional turnkey project cost.

The current of exploratory approaches from foreign companies which the Turkish Government has received indicates that the country is attractive to suppliers. But for the banks, Turkish risk may impose a firm limit on the number of projects which get the go-ahead.

Alarm at US curbs on machine tool imports

By Andrew Fisher in Frankfurt

THE West German machine tool industry reacted with surprise and alarm to the news that the US had decided to place limits on future exports to its biggest market. The Swiss, who also face curbs on the exports of machine tools to the US, warned that they would complain to the General Agreement on Tariffs and Trade if their exports were barred.

Neither the German machine tool industry association nor the Bonn Government, however, was ready yesterday to say how they would react to the decision from Washington. More study was needed.

The US has been stepping up its purchases of German machine tools. In the first nine months of 1986, German sales of machine tools to the US jumped by 50 per cent to \$1.7 billion. Thus the final figure for the year is expected to be around DM 900m compared with DM 640m in 1985.

Officials of the industry association said German sales in the categories singled out for action by the US—lathes, machining centres, punching and shearing machines—are a small part of the US import total.

Moreover, they added, the overall German sales surge to North America would be considerably dampened next year, as the new order inflow to German producers from the US has fallen by as much as 40 per cent in 1986.

The US move follows agreement with Japan and Taiwan to limit exports of machine tools for the next five years.

Some industry sources said the Japanese, whose US market penetration in multi-purpose machinery centres and lathes has been dramatic, could try to unload products on other markets.

This would thus open up the danger of protectionist moves in other countries, especially in Europe. After Japan, West Germany is the second largest exporter to the US of machine tools followed by Italy and Switzerland.

German machine tool sales to the US account for about 14 per cent of the industry's total foreign deliveries. Of US imports in the four categories covered by the new curbs, Germany made up only 2.5 per cent. In machining centres, however, 8 per cent came from Germany, and 15 per cent in punching and shearing machines.

US may delay action on Brazil software law

By Nancy Dunne in Washington

A FLURRY of meetings in Washington this week could well lead to a delay of US action against Brazil in its long-running battle over Brazil's protection of information technology.

The top-level US economic Trade Policy Council is expected to discuss the dispute this week. In the wake of a meeting with industry representatives, sources close to the Reagan Administration may agree to delay its self-imposed December 31 deadline for resolution of the dispute since the Brazilian Congress cannot act until it returns from recess in February.

On December 9 Brazilian President Jose Sarney sent to the Brazilian Congress a proposed new software law, which the US Computer and Business Equipment Manufacturers' Association (CBEMA) has called "unacceptable."

The proposal would extend Brazil's market reserve programme to software and, says the association, it adopts "a novel approach to copyright protection... that does not conform to international norms."

Industry representatives have, however, advised the association to accept a settlement if three conditions are met:

• The Brazilian Government provides adequate protection for intellectual property rights.

• It agrees not to extend its information law beyond 1992 and not to expand it in the interim.

• It agrees to regular policy level discussions to further liberalise the law.

"We're after clarity," said Mr William Maxwell, a spokesman for CBEMA.

"What are the rules? We must have protection of copyrights. Every other civilised country has agreed that software should be covered by a copyright law."

McDonnell and Boeing focus on Alitalia contract

BY JOHN WYLES IN ROME

ALITALIA has become the focus of competition between Boeing and McDonnell-Douglas for a \$1bn (£700m) order for 10 aircraft to replace its ageing fleet of Boeing 747s.

The presidents of both US aerospace companies have visited Rome recently to present purchase deals which would involve sub-contracting work for Alitalia, the Italian state-owned aerospace company.

Appearing before a parliamentary committee yesterday, Mr Umberto Nordin, the president of Alitalia, said yesterday that the sub-contracting work on offer from both companies was worth "several thousand billion lire and countless jobs."

The cost of replacing Alitalia's six all-passenger and five combined passenger/cargo Boeing 747s would be \$1.1bn, he said, and a little less for McDonnell-Douglas.

The Italian airline was under pressure to make a quick choice, said Mr Nordin, because McDonnell-Douglas had put an early deadline on its offer and Boeing was waiting to exploit a competitive situation to obtain a reduction in prices.

Competition between the two US companies has been sharpened by McDonnell-Douglas's search for about \$30m of orders needed to launch formally its new long range MD11 tri-jet. So far it has taken orders for 14 aircraft worth around \$1.5bn and an Alitalia order for 10 or 11 aircraft would take it near its goal.

For its part, Boeing is putting its formidable marketing effort behind its 767 aircraft. Since Alitalia flies both Boeing and McDonnell-Douglas jets the decision may depend on the value

of sub-contract work. Alitalia is already collaborating with both US companies in contract to the larger western European aerospace companies which are participating in the Airbus programme. The interests of Alitalia and Boeing are linked through their parent, Iri, the state holding company.

According to some Italian observers, McDonnell-Douglas might have more to offer on the collaboration front since Alitalia is already producing parts for the 767. However, Mr Nordin seemed to be implying proposals were roughly equal on this front.

Ansaldo in Mexico deal

BY OUR ROME CORRESPONDENT

ANSALDO, the Italian state-owned electrical engineering group, has won a contract worth more than \$1.5bn (£25m) to supply four turbogenerators for Mexican power stations.

The generators, with a total output of 770 megawatts, will be installed in oil burning electric power stations at Valladolid and Altamira.

More than 40 per cent of the value of the order will be manufactured in Mexico with technical assistance from Ansaldo.

Ansaldo says it beat strong international competition for the order from the Mexican electricity authority, CFE. The contract also covers installation of the generators and servicing and technical supervision.

The interest of the government is becoming directly involved in countertrade means Thailand is set to join Indonesia and Malaysia as the leading south east Asian nations with government-established countertrade policies.

The Thai programme also embraces the idea of taking payment in kind for its own goods. It will examine the goods it is to receive on state-to-state and state-to-private sector dealings on a case-by-case basis.

Swissotel to operate \$125m Chicago hotel

BY JOHN WICKS IN ZURICH

SWISSOTEL, the hotel management company owned jointly by Swissair and the Nestlé group, is to operate what it says will be Chicago's first world-class conference hotel.

The \$125m Swiss Grand Hotel, due to open in early 1989, will be a 45-floor triangular building located close to Grant Park and the lake-front in central Chicago.

As well as offering 648 rooms, it is to contain 51,000 sq ft of conference and banquet facilities. There will be each include truck lighting, audio-visual installations and flexible seating for 80 people.

A theatre-sized seminar room will be fitted with a television production studio for satellite links. Designed particularly for business travellers, the Chicago hotel will provide access for its guests to computers, data banks, advanced

communications equipment and guest rooms able to function as executive offices.

Swissotel is also to open a Swiss Grand Hotel in Seoul next autumn. Located in a park in the Lotus Hill sector of the south Korean capital, this will offer 400 rooms and suites, executive floors, a business centre and large conference and banquet hall.

At the same time, an apartment complex with 120 luxury two-to-four-room apartments will be inaugurated under Swissotel management on an adjacent site.

The Swiss group now manages a total of 12 hotels.

After having concentrated to date on Europe and the US, it recently opened the Crystal Place in the Chinese city of Tianjin with 320 rooms and 30 suites and also conference facilities.

Analysts say the stagnation of growth could accelerate a shake-out in the industry.

Japan robot output to fall by 7%

BY IAN RODGER IN TOKYO

JAPAN'S robot production will drop 7 per cent this year to 72,800 units (£1.2bn), mainly because of the slump in manufacturing investment in Japan, according to the Japan Industrial Robot Association.

This will be the first decline in Japan's robot output since 1980, and is a blow to the industry's image of high technology and high growth.

Since 1980, when the industry's output was worth \$30bn, it has enjoyed annual growth rates of 10 per cent to 30 per cent. Many producers have also acquired strong reputations in the world market. About 20 per

cent of Japanese robots are exported.

This year exports, too, have suffered, notably because of order cancellations by General Motors of the US for systems from its affiliate GMF, a joint venture with Fanuc of Japan.

Mr Ben Moyer, an analyst with Merrill Lynch Securities in Tokyo, said: "There are about 200 robot-makers in Japan. Many of them are so small that no one would notice they have gone."

Analysts say the stagnation of growth could accelerate a shake-out in the industry.

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OUTSTANDING BONDS OF U.S. \$1,000 EACH BEARING THE FOLLOWING NUMBERS:

1	484	1851	2329	4155	5069	5481	6188	6456	7128	7767	8390	8958	9769	10150	10832	11913	14229	14722	15597	22284	27226	27231	27292	28228	28239	28240	28241	28242	28243	28244	28245	28246	28247	28248	28249	28250	28251	28252	28253	28254	28255	28256	28257	28258	28259	28260	28261	28262	28263	28264	28265	28266	28267	28268	28269	28270	28271	28272	28273	28274	28275	28276	28277	28278	28279	28280	28281	28282	28283	28284	28285	28286	28287	28288	28289	28290	28291	28292	28293	28294	28295	28296	28297	28298	28299	28300	28301	28302	28303	28304	28305	28306	28307	28308	28309	28310	28311	28312	28313	28314	28315	28316	28317	28318	28319	28320	28321	28322	28323	28324	28325	28326	28327	28328	28329	28330	28331	28332	28333	28334	28335	28336	28337	28338	28339	28340	28341	28342	28343	28344	28345	28346	28347	28348	28349	28350	28351	28352	28353	28354	28355	28356	28357	28358	28359	28360	28361	28362	28363	28364	28365	28366	28367	28368	28369	28370	28371	28372	28373	28374	28375	28376	28377	28378	28379	28380	28381	28382	28383	28384	28385	28386	28387	28388	28389	28390	28391	28392	28393	28394	28395	28396	28397	28398	28399	28400	28401	28402	28403	28404	28405	28406	28407	28408	28409	28410	28411	28412	28413	28414	28415	28416	28417	28418	28419	28420	28421	28422	28423	28424	28425	28426	28427	28428	28429	28430	28431	28432	28433	28434	28435	28436	28437	28438	28439	28440	28441	28442	28443	28444	28445	28446	28447	28448	28449	28450	28451	28452	28453	28454	28455	28456	28457	28458	28459	28460	28461	28462	28463	28464	28465	28466	28467	28468	28469	28470	28471	28472	28473	28474	28475	28476	28477	28478	28479	28480	28481	28482	28483	28484	28485	28486	28487	28488	28489	28490	28491	28492	28493	28494	28495	28496	28497	28498	28499	28500	28501	28502	28503	28504	28505	28506	28507	28508	28509	28510	28511	28512	28513	28514	28515	28516	28517	28518	28519	28520	28521	28522	28523	28524	28525	28526	28527	28528	28529	28530	28531	28532	28533	28534	28535	28536	28537	28538	28539	28540	28541	28542	28543	28544	28545	28546	28547	28548	28549	28550	28551	28552	28553	28554	28555	28556	28557	28558	28559	28560	28561	28562	28563	28564	28565	28566	28567	28568	28569	28570	28571	28572	28573	28574	28575	28576	28577	28578	28579	28580	28581	28582	28583	28584	28585	28586	28587	28588	28589	28590	28591	28592	28593	28594	28595	28596	28597	28598	28599	28600	28601	28602	28603	28604	28605	28606	28607	28608	28609	28610	28611	28612	28613	28614	28615	28616	28617	28618	28619	28620	28621	28622	28623	28624	28625	28626	28627	28628	28629	28630	28631	28632	28633	28634	28635	28636	28637	28638	28639	28640	28641	28642	28643	28644	28645	28646	28647	28648	28649	28650	28651	28652	28653	28654	28655	28656	28657	28658	28659	28660	28661	28662	28663	28664	28665	28666	28667	28668	28669	28670	28671	28672	28673	28674	28675	28676	28677	28678	28679	28680	28681	28682	28683	28684	28685	28686	28687	28688	28689	28690	28691	28692	28693	28694	28695	28696	28697	28698	28699	28700	28701	28702	28703	28704	28705	28706	28707	28708	28709	28710	28711	28712	28713	28714	28715	28716	28717	28718	28719	28720	28721	28722	28723	28724	28725	28726	28727	28728	28729	28730	28731	28732	28733	28734	28735	28736	28737	28738	28739	28740	28741	28742	28743	28744	28745	28746	28747	28748	28749	28750	28751	28752	28753	28754	28755	28756	28757	28758	28759	28760	28761	28762	28763	28764	28765	28766	28767	28768	28769	28770	28771	28772	28773	28774	28775	28776	28777	28778	28779	28780	28781	28782	28783	28784	28785	28786	28787	28788	28789	28790	28791	28792	28793	28794	28795	28796	28797	28798	28799	28800	28
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Mexico deal

NDENT
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Thailand is a
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o operate icago hotel

communications equip
guest rooms able to fac
executive offices.
Sonsstel is also a
Grand Hotel in Seoul.
Located in a park in the
sector of the south Korea
this will offer 40 rooms,
executive floors, a lounge
and large conference ad
ing halls.
At the same time it
complex with 120 apart-
ments, restaurants and
guaranteed under Swiss
ment on an adjacent
The Swiss group own
trail of 10 hotels.
After having comm
in Europe and the US
opened the Crystal Hotel
near city of Tianjin wh
and 80 suites and also
facilities.

output to fall by

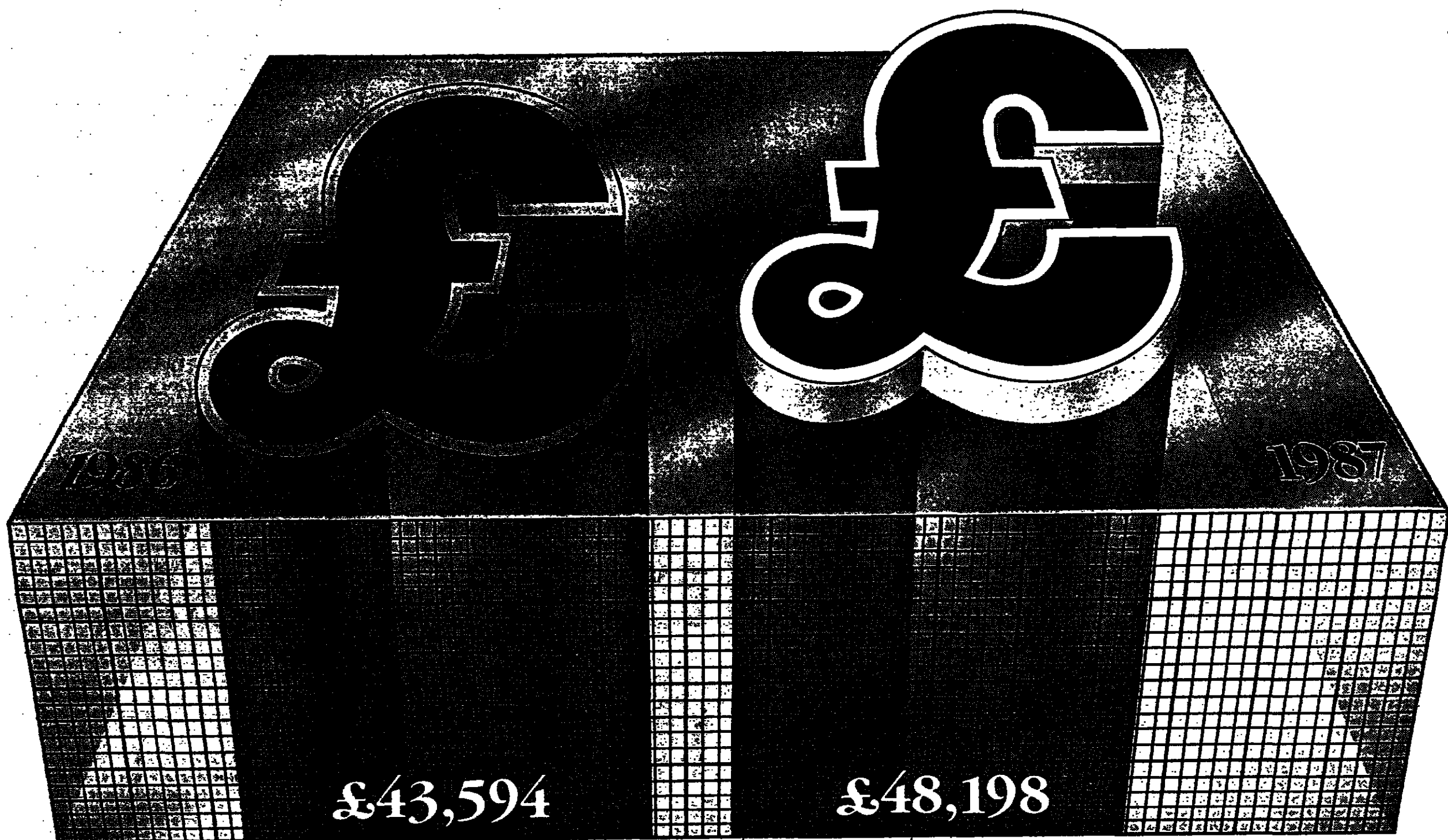
cent of Japanese man
ported.
This year Japan
suffered, notably in
order cancellations b
Motors of the US
from its alliance with
venture with Fiat.
Mr. Ben. Moore, a
with Merrill Lynch
said: "There are
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Many of them are
no one would notice
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Analysts say the
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NORWICH UNION PAYOUTS- UP YET AGAIN!



Isn't it time you were a Norwich Union with-profits Policyholder?

Norwich Union's investment skills are proven yet again. The payout from a 25-year with-profits endowment policy maturing in January 1987 rises from £43,594 to £48,198 – that's a huge 10.5%. The payout from a 15-year policy is up by 10.3%, £17,383 as against £15,750, last year, while even on a ten-year term, the payout is up from £7,922 to £8,431 – a 6.4% increase (all examples refer to a £30 per month policy taken out by a man age 29).

Ask any independent financial adviser about the consistency of Norwich Union payouts; the way we invest with flair and care; our great financial strength. We're confident you'll find that, all things considered....

You're better off the Norwich way.





ADVANTAGE, SEARS.

When it comes to racquets, a Sears company is without doubt the No. 1 seed:

Olympus Sport.

Not only are they an acknowledged authority on racquets, but they sell more than probably anyone else in the world.

Well over 120,000 tennis, squash and badminton racquets of all types pass hands in Olympus Sport stores every year.

It's typical of the energy that Olympus Sport put into the whole game of sports retailing.

Since joining the Sears Group in 1978 their aim has been to win that game. The strategy was simple: identify the market (young, fashionable, active) and go for it.

The result is a national chain of highly exciting stores that have revolutionised the selling of sportswear, shoes and equipment.

The stores are creative and innovative. (Olympus pioneered the use of video walls.) The goods are displayed in imaginative ways. The staff are young, lively and knowledgeable.

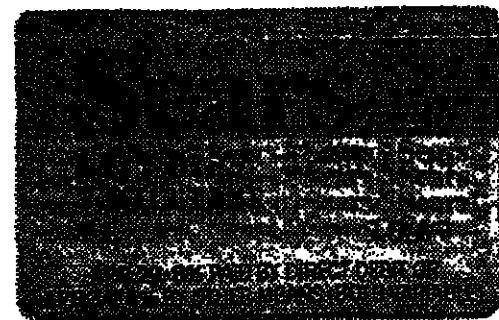
Olympus Sport has been a runaway success. They are now the country's largest specialist sports retailer.

And as a member of the Sears team, they join an impressive line-up of famous retailing names.

You can join the team, too. With a Sears Credit Card.

It is accepted in a list of stores that reads like a Who's Who of the High Street. (See below.)

If you would like one, send for an application form and written details to: Sears Financial Services, Dept. MT, Freepost, London W2 4BR.



ADAMS CHILDRENSWEAR • DOLCIS • DORMIE • ESQUIRES • FOSTERS • GILBERT RICE • LEWIS'S • LILLEY & SKINNER • MAPPIN & WEBB • MILLETS • MISS SELFRIDGE • OLYMPUS SPORT
ROLAND CARTIER • SAXONE • SELFRIDGES • SHAW & KILBURN • SMT • WALLIS



ENGLISH CHINA CLAYS

RESULTS FOR YEAR ENDED 30th SEPTEMBER 1986

- RECORD OF CONTINUING SUCCESS
- RECORD PROFIT - UP BY 21%
- RECORD DIVIDEND - UP BY 13.6%
- RECORD EARNINGS PER SHARE - UP BY 9.5%

	1986	1985
	£'000	£'000
TURNOVER (INCLUDING U.K. EXPORTS OF £182M (1985 £175M))	688,591	713,893
PROFIT ON ORDINARY ACTIVITIES BEFORE TAXATION	90,361	74,648
PROFIT ON ORDINARY ACTIVITIES AFTER TAXATION	58,066	46,696
DIVIDEND PER SHARE - INTERIM	4.25p	4.00p
- RECOMMENDED FINAL	8.25p	7.00p
EARNINGS PER SHARE	28.44p	25.97p
DIVIDEND COVER (TIMES)	2.3	2.2

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UK NEWS

Streamlined procedures due for planning disputes

By PAUL CHEESERIGHT

THE GOVERNMENT yesterday introduced measures to streamline the lengthy system of appeals and public inquiries into town and country planning issues.

The changes "will ease the burden on all those involved in disputed planning cases while still ensuring that the interests of conservation remain fully protected," claimed Mr William Waldegrave, the Minister for the Environment, in the House of Commons.

He was giving a written answer to a question from Sir Hugh Rossi, the Conservative chairman of the Commons select committee on the environment, and presenting the Government's response to a committee report in the form of a White Paper.

This White Paper (policy document) is the latest in a series of Government steps to make the planning system, more amenable to economic development. It will be followed early next year by steps to

make more flexible the Use Classes Order, which specifies the nature of developments that can take place on particular sites.

The latest moves concentrate on the appeals and inquiry procedures designed to handle disputes between developers and local authorities over planning applications and developments of national importance, such as the siting of a new motorway.

They involve setting timetables for the hearing of appeals and inquiries, an increase in the number of inspectors carrying them out, the introduction of more aids for inspectors, such as word processors, and an undertaking that the Government will give clearer policy advice to guide planners and developers.

The effect, according to the White Paper, should be to reduce the median time for handling appeals and inquiries to 17 weeks by 1989, from 30 weeks in 1985. By

comparison, the inquiry into the siting of a nuclear power station at Sizewell in south-east England took 340 working days.

Both planning authorities and developers are to be encouraged to use the appeals procedure only as a last resort by the threat to award costs against them when there are "unreasonable refusals of planning permission or frivolous appeals."

Local authority planners have frequently criticised central government for clogging the planning system by being too preoccupied with details. In the White Paper, the Government said its policy "is to simplify the planning system and improve its efficiency. It fully accepts that it should put its own house in order as a key element in that process."

A Planning Appeals, Call-In and Major Public Inquiries - the Government's response to the fifth report from the environment committee, session 1985-86; Cm 43; HMSO, 25.

Delays 'cost exporters £100m yearly'

By Peter Montagnon

DELAYS in payment collection by exporters are costing UK industry £100m a year in unnecessary interest charges, according to a recent survey by Barclays Bank and Sirpro, the semi-official Simplification of International Trade Procedures Board.

The study covers transfer times taken for payments to reach exporters from their customers in the UK's 10 largest export markets. It does not include the cost of repatriating funds from markets such as Zambia where acknowledged foreign exchange problems exist.

Even in the main export markets "delays often arise because exporters and buyers have not made clear or adequate arrangements for the transfer of money. The result is that UK companies are bearing significant and avoidable additional costs," Mr Malcolm Stephens, Barclays Export Finance Director, said.

Cash By Express, Skipton, Alcock House, 25-26 King Street, London SW1P 6QW, 27.

Limit on Greek cement

By MAURICE SAMUELSON

STRICT limits on Greek cement imports into Britain are to be introduced after lobbying in Brussels by the British Government which culminated in a European Commission order to phase out controversial subsidies to Greek cement manufacturers.

The limits are so low that they should dispel the anxieties about the threat of job losses voiced by UK cement manufacturers, as well as the coal industry for which they are a major customer.

Under a bilateral agreement to be concluded this week between Britain and Greece, Greek imports will be initially held at 2.75 per cent of

the UK market, peaking at 3 per cent by 1989.

Imports would thus be kept to about 500,000 tonnes a year out of a UK market of some 13m tonnes.

Britain can now police these quotas under a decision of the commission, signed on Tuesday, which allows for close scrutiny of the level of subsidies the Greek cement manufacturers receive from their Government.

The commission told Greece that if the subsidies were not kept within the agreed levels over the next four years, it would invoke its power to outlaw them.

UK ECONOMIC INDICATORS

ECONOMIC ACTIVITY—Indices of industrial production, manufacturing output (1980=100); engineering orders (1980=100); retail sales volume (1980=100); retail sales value (1980=100); registered unemployment (excluding school leavers) and unfilled vacancies (000s). All seasonally adjusted.

	Indl. prod.	Mfg. output	Eng. orders	Retail vol.	Retail value	Unemp.	Vacs.
1985							
2nd qtr.	109.1	104.5	109	114.9	141.4	11.74	16.7
3rd qtr.	108.3	103.9	104	116.1	145.2	11.24	16.4
4th qtr.	108.4	103.6	105	116.7	147.7	11.22	16.2
1986							
1st qtr.	108.4	102.8	105	118.2	145.4	11.71	16.5
2nd qtr.	108.9	103.5	98	120.0	152.7	11.98	17.5
3rd qtr.	110.5	104.6	98	122.1	157.4	12.22	18.2
April	110.8	104.1	94	119.3	152.1	12.98	17.2
May	108.5	103.1	101	118.5	149.8	12.95	17.1
June	107.8	103.4	99	121.7	155.4	12.28	16.4
July	108.9	104.5	102	123.9	158.2	12.22	16.2
August	110.6	104.1	104	122.0	155.2	12.19	16.1
September	110.3	105.3	103	123.2	156.7	12.13	16.4
October	110.0	105.6	104	122.2	164.7	12.15	16.2
November				126.1			

OUTPUT—By market sector; consumer goods, investment goods, intermediate goods (materials and fuels); engineering output, metal manufacture, textiles, leather and clothing (1980=100); housing starts (000s, monthly average).

	Consumer goods	Invest. goods	Intmd. goods	Eng. output	Metal mfg.	Textile etc.	Housing starts
1985							
2nd qtr.	103.2	105.2	113.5	105.7	117.7	102.0	18.2
3rd qtr.	104.3	102.5	113.1	106.6	116.2	102.2	17.3
4th qtr.	103.7	102.7	113.5	103.2	114.0	102.4	15.6
1986							
1st qtr.	102.1	102.5	115.5	102.1	111.2	102.1	14.2
2nd qtr.	104.3	100.5	114.9	102.0	110.3	102.3	15.8
3rd qtr.	105.1	101.8	117.9	103.5	107.7	102.4	18.8
April	104.9	101.1	117.9	103.0	106.0	104.0	18.7
May	103.8	100.4	114.2	102.0	111.0	100.0	19.2
June	102.5	100.0	112.7	101.9	112.0	102.0	21.5
July	104.5	102.7	115.1	103.9	108.0	100.0	20.8
August	104.5	101.5	117.6	103.0	106.0	104.0	16.6
September	105.7	102.3	117.3	105.0	108.0	102.0	15.7
October	105.8	103.2	115.0	105.0	111.0	102.0	18.5

EXTERNAL TRADE—Indices of export and import volume (1980=100); visible balance; current balance (£m); oil balance (£m); terms of trade (1980=100); official reserves.

	Exports volume	Imports volume	Visible balance	Current balance	Oil balance	Terms trade	Reserve US\$bn
1985							
2nd qtr.	129.5	124.8	-124	+1,587	+2,411	97.3	14.32
3rd qtr.	116.3	124.1	-440	+1,447	+1,990	100.2	14.18
4th qtr.	118.9	127.9	-282	+612	+1,993	101.6	15.34
1986							
1st qtr.	116.9	125.7	-1,437	+619	+1,329	101.9	18.75
2nd qtr.	121.8	128.6	-1,579	+379	+756	102.5	19.20
3rd qtr.	123.3	139.1	-3,634	+634	+888	102.3	22.42
April	122.6	122.7	-681	+385	+268	101.8	18.90
May	121.1	131.6	-685	+39	+215	102.7	19.17
June	121.6	139.5	-630	+23	+23	103.7	18.90
July	125.2	134.9	-636	+164	+240	102.3	18.02
August	117.9	142.9	-1,514	-714	+109	104.9	18.93
September	126.5	139.5	-885	-85	+288	102.5	22.43
October	125.3	140.6	-885	+85	+184	102.2	21.99
November							22.01

FINANCIAL—Money supply M0, M1 and sterling M3, bank advances in sterling to the private sector (three months' growth at annual rate); building societies' net inflow; RPI, new credit; all seasonally adjusted. Clearing Bank base rate (end period).

	M0	M1	M3	Bank adv.	BS	HP	Base rate
1985							
3rd qtr.	2.9	29.5	15.5	17.5	1,771	3,374	11.50
4th qtr.	2.9	29.5	15.5	17.7	2,228	3,431	11.50
1986							
1st qtr.	4.1	21.4	19.3	12.2	2,228	3,385	11.50
2nd qtr.	3.1	24.2	26.6	26.7	1,433	2,658	10.00
3rd qtr.	5.9	30.7	15.6	16.9	188	3,304	10.00
April	1.2	20.1	24.3	25.5	756	2,743	11.50
May	4.3	24.7	21.3	25.0	500	2,372	10.00
June	2.9	27.8	21.3	25.0	177	2,542	10.00
July	5.4	34.6	20.5	15.9	357	2,719	10.00
August	5.7	21.4	7.9	17.5	452	2,678	10.00
September	6.6	36.5	18.6	16.5	-671	2,907	10.00
October	6.3	21.1	15.4		1,561	2,796	11.00
November							

INFLATION—Indices of earnings (Jan 1980=100); basic materials and fuels, wholesale prices of manufactured products (1980=100); retail prices and food prices (Jan 1974=100); Reuters commodity index (Sept 1931=100); trade weighted value of sterling (1975=100).

	Earnings	Basic materials	Wholesale mfg.	RPI	Foodst.	Reuters' comdty	Sterling
1985							
3rd qtr.	174.4	132.1	140.2	376.3	335.5	1,706	82.2
4th qtr.	176.9	132.4	141.4	378.1	337.4	1,771	79.8
1986							
1st qtr.	178.1	132.4	143.4	380.8	342.2	1,813	75.1
2nd qtr.	184.0	135.8	145.7	383.7	349.3	1,853	78.1
3rd qtr.	187.4	130.8	146.3	386.1	348.1	1,488	71.1
April	184.0	126.5	145.4	385.3	347.4	1,786	75.2
May	182.3	126.4	145.9	386.0	348.5	1,783	76.1
June	185.7	124.2	145.8	386.0	347.4	1,433	75.9
July	187.9	119.8	145.9	384.7	347.4	1,480	74.9
August	187.7	128.3	146.3	385.9	348.3	1,461	71.4
September	187.0	122.4	146.7	386.4	347.5	1,600	67.8
October	187.0	122.4	146.7	386.4	347.5	1,617	68.5
November							

† From January 1986 includes amounts outstanding on credit cards.

Curbs on pyramid selling

By David Charlton

TOUGHER legislation to curb pyramid selling in the UK is being planned by the Government following a wave of new fraudulent pyramid-selling schemes in recent years.

Pyramid selling involves companies recruiting individuals to buy goods or services from them and then selling them to the general public. This differs from normal wholesaling in that the company selling the goods or services regards the middleman as its market rather than the end consumer.

Many invest their savings in such schemes and then have difficulty in recovering their investment.

Such pyramid-selling schemes first appeared in the UK in the late 1980s. The worst abuses were banned by laws passed in 1973.

However, the Department of Trade said yesterday that, since this legislation was brought in, "a new wave of schemes has appeared whose methods suggest the need for new controls."

In particular, the new schemes concentrate on encouraging sales to middlemen. "Participants are shown that they can 'earn' good money if they bring in new recruits and, most important, if those recruits themselves buy quantities of goods from the promoter or wholesale distributor," the department says in a consultative document published yesterday.

The department's proposals are aimed at restricting the amounts of money that promoters of pyramid schemes can obtain from participants.

Laws would ban the soliciting or taking of payments for goods unless these were required for display or demonstration or to satisfy orders previously received from consumers.

The Direct Selling Association said last night that the Government's proposals "are based more on preventing participants making a risky investment rather than providing him with the recourse to remedial action."

It would have preferred to see an approach based on defining and then outlawing pyramid-selling schemes which the Government considered unlawful.

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Lloyds Bank sued in export fraud case

Bank and the government agency. Mrs Stapleton's husband, Mr Robert Stapleton, is living in Spain. He has always claimed that he was encouraged to make fictitious claims and exposed the fact that the ECGD was at one stage giving him access to subsidised credit in breach of EEC rules.

The ECGD has since admitted to

fee scheme.

This and other credit frauds resulted in the creation at the beginning of this year of a fraud investigation unit at the ECGD. The agency said yesterday it was also tightening up on its procedures for examining the track records of individual exporting companies and for scrutiny of claims made against it.

Mr Hobson said it was too early to say how the investigations were proceeding or when their results were likely to be known. However, Cambrian will be seeking an adjournment of its annual meeting scheduled for December 20.

Bank challenged over commission

Mr Clive Wolman, a Financial Times journalist, has issued a writ against National Westminster Bank claiming to be paid the commission the bank earned by arranging a mortgage for him. Mr Wolman acted as his agent in arranging the mortgage - an assertion the bank denies. He says that the bank received a substantial commission - a secret writ - from Norwich Union.

The Post Office not opposed to using private capital for joint ventures. The idea might be relevant, for example, to its plans for counter automation.

A growth in mail volumes of more than 6 per cent led to 2,642 full-time employees.

Year	1950-1959	1960-1969	1970-1979	1980-1989	1990-1999
1950	1.56	1.91	2.17	2.41	2.65
1951	1.58	1.93	2.19	2.43	2.67
1952	1.60	1.95	2.21	2.45	2.69
1953	1.62	1.97	2.23	2.47	2.71
1954	1.64	1.99	2.25	2.49	2.73
1955	1.66	2.01	2.27	2.51	2.75
1956	1.68	2.03	2.29	2.53	2.77
1957	1.70	2.05	2.31	2.55	2.79
1958	1.72	2.07	2.33	2.57	2.81
1959	1.74	2.09	2.35	2.59	2.83
1960	1.76	2.11	2.37	2.61	2.85
1961	1.78	2.13	2.39	2.63	2.87
1962	1.80	2.15	2.41	2.65	2.89
1963	1.82	2.17	2.43	2.67	2.91
1964	1.84	2.19	2.45	2.69	2.93
1965	1.86	2.21	2.47	2.71	2.95
1966	1.88	2.23	2.49	2.73	2.97
1967	1.90	2.25	2.51	2.75	2.99
1968	1.92	2.27	2.53	2.77	3.01
1969	1.94	2.29	2.55	2.79	3.03
1970	1.96	2.31	2.57	2.81	3.05
1971	1.98	2.33	2.59	2.83	3.07
1972	2.00	2.35	2.61	2.85	3.09
1973	2.02	2.37	2.63	2.87	3.11
1974	2.04	2.39	2.65	2.89	3.13
1975	2.06	2.41	2.67	2.91	3.15
1976	2.08	2.43	2.69	2.93	3.17
1977	2.10	2.45	2.71	2.95	3.19
1978	2.12	2.47	2.73	2.97	3.21
1979	2.14	2.49	2.75	2.99	3.23
1980	2.16	2.51	2.77	3.01	3.25
1981	2.18	2.53	2.79	3.03	3.27
1982	2.20	2.55	2.81	3.05	3.29
1983	2.22	2.57	2.83	3.07	3.31
1984	2.24	2.59	2.85	3.09	3.33
1985	2.26	2.61	2.87	3.11	3.35
1986	2.28	2.63	2.89	3.13	3.37
1987	2.30	2.65	2.91	3.15	3.39
1988	2.32	2.67	2.93	3.17	3.41
1989	2.34	2.69	2.95	3.19	3.43
1990	2.36	2.71	2.97	3.21	3.45
1991	2.38	2.73	2.99	3.23	3.47
1992	2.40	2.75	3.01	3.25	3.49
1993	2.42	2.77	3.03	3.27	3.51
1994	2.44	2.79	3.05	3.29	3.53
1995	2.46	2.81	3.07	3.31	3.55
1996	2.48	2.83	3.09	3.33	3.57
1997	2.50	2.85	3.11	3.35	3.59
1998	2.52	2.87	3.13	3.37	3.61
1999	2.54	2.89	3.15	3.39	3.63



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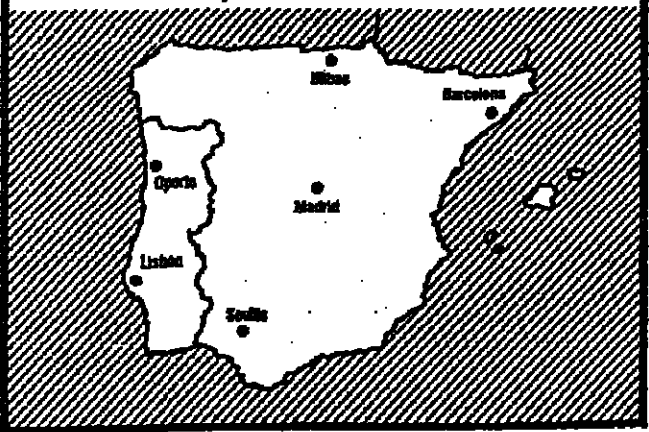
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UK NEWS

Over 6m Britons 'unhappy with some aspect of insurance'

BY NICK BUNKER

MORE than 6m Britons are unhappy with some aspect of insurance or the way it is sold, according to research by the Office of Fair Trading.

But an estimated 76 per cent of Britons have never heard of the Insurance Ombudsman or any of the industry's watchdog bodies, the OFT said yesterday.

The single biggest source of dissatisfaction is motor insurance, the OFT found. Projecting from the survey, an estimated 1.5m people are likely to complain about issues such as high premium rates or delays in paying out claims.

But an estimated 9 per cent of adults - about 4m people - have also had difficulties with life assurance salesmen or selling methods. The most frequent complaint is over salesmen "invading privacy" by calling uninvited or at awkward times.

The OFT's findings were based on a survey last year of a sample of 3,000 Britons aged 16 or over. It was carried out for the OFT by MAS Survey Research, which took names at random from the electoral roll.

A principal objective was to find out how much difficulty people had experienced with selling methods and staff, the OFT said.

Researchers found that about 14 per cent of those interviewed reported some problems with insurance over the past two years. But the OFT said it was only fair to look at those whose dissatisfaction was "with the end product, rather than with sales approaches, many of

which were probably fruitless."

Between 3 and 8 per cent of those questioned complained about the end product, which was "not particularly high" for a service industry, the OFT said.

Eight per cent of motor insurance policyholders were dissatisfied with the end product, closely followed by 6 per cent of people with unit linked life assurance.

One of the most striking findings was the "extremely low" consumer awareness of the industry's watchdog bodies. Only 14 per cent had ever heard of the Insurance Ombudsman, the OFT said.

● Scarborough Building Society, Britain's second-oldest society, will launch a brand new range of insurance services at the beginning of next month, including its own motor insurance plan.

Under the 1886 Building Societies Act, societies have from January 1 1987 very much wider powers of operation, including that of offering a full insurance broking and intermediary service. Until now, building societies could only provide insurance services that were related to house buying such as house insurance or life contracts to repay mortgages.

But while other societies have highlighted their plans for lending, investment or acquiring estate agents, Scarborough Building Society is the first to announce its insurance intermediary activities.

*The Selling of Insurance Policies. Free, from the Office of Fair Trading, Rm 517, Chancery House, 53 Chancery Lane, London WC2.

Eight new faces for City industry inquiry

BY ANDREW TAYLOR

EIGHT new members have been appointed to the Confederation of British Industry's (CBI) task force set up to investigate ways of improving relations between City of London institutions and industry.

They include Sir Ralph Halpern, chief executive of Burton Group, the retailers, Sir John Greenborough, chairman of Newarthill, the construction group, and deputy chairman of Lloyds Bank, and Lord Remnant chairman of Touche Renmant, the fund management group.

The task force, which will operate initially for one year, was set up following efficiency some criticisms at last month's CBI annual conference that the City's preoccupation with short-term financial gains was damaging the long-term interests of industry and the economy.

The move was prompted partly by the recent spate of contested takeovers and mergers which have involved a number of companies represented on the task force.

Earlier this week it was revealed that Hanson trust, which has instigated a number of the takeover bids was also joining the task force. It will be chaired by Mr David Nicholson, CBI president and chairman of Scottish and Newcastle Breweries.

and financial institutions have now joined the task force, which is expected to hold its first meeting early in the new year.

The inclusion of companies such as Burton and Hanson Trust among industry's representatives is regarded as important because as recent instigators of takeovers they may provide a different perspective from companies such as Allied Lyons and Plessey, which have been on the receiving end of hostile bids.

The task force has been asked to review the criteria by which financial investors assess the performance of industrial companies in which they invest and to recommend ways of improving the relationship between companies and the City.

Other new members of the task force are Mr Tim H. Norman, chairman and managing director of Spafax Holdings, Mr Daniel Hodson, group finance director of Unigate, Mr R. T. S. Macpherson, chairman of the National Council and the Association of British Chambers of Commerce, Mr Paul Marshall, professor of management and finance at the London Business School, and Mr Paul Nicholson, chairman and managing director of Vaux Group.

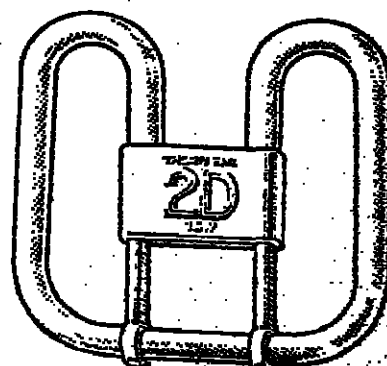


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Raymond Hughes looks at the Scandinavian Bank case

Ruling worries companies wanting to quit sterling

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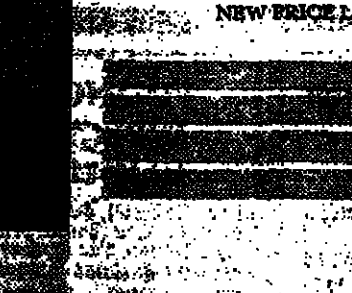
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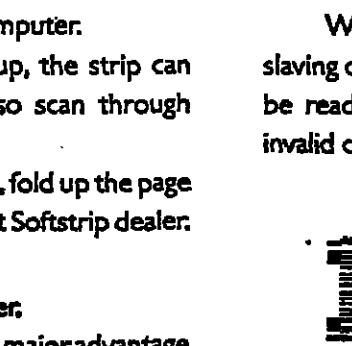
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INTERNATIONAL APPOINTMENTS

Senior moves at Texaco

A STRING of senior management appointments has been made by Texaco, the US integrated oil company, in preparation for the retirement at the end of the year of Mr John K. McKinley, 66, as chairman and chief executive.

Among the moves is the re-appointment of Mr Roland M. Routhier, 60, currently president of Texaco USA, and Mr Elton G. Yates, 51, president of Texaco Latin America/West Africa, to their headquarters in White Plains, N.Y.

It was announced recently that with the retirement of Mr McKinley, Mr James W. Kinsner, 58, was to be promoted from vice chairman to president and chief executive, with Mr Alfred C. DeCrane, Jr, 55, moving from the post of president to that of

chairman. Mr Routhier is to be succeeded at Texaco USA by Mr James L. Dunlap, 49, president of Texaco Canada, a post to be assumed by Mr Peter L. Bijur, 44.

Mr C. Robert Black, 51, takes over as president of Texaco Latin America/West Africa, and is in turn succeeded as president of Texaco Middle East/Far East—where he is responsible for company interests in Indonesia, Saudi Arabia and other parts of the Middle East and Pacific Basin—by Mr Earl L. Johnson, 56.

Mr Routhier will continue as a Texaco Canada director and will have oversight responsibility for Texaco's majority shareholding in the Canadian affiliate as well as for Texaco Latin

America/West Africa and worldwide aviation and marine sales. Mr Yates will have oversight responsibility for the Middle East/Far East division and for Texaco Oil Trading and Supply Company, the offshoot which handles worldwide crude oil and product purchases and sales. He will also be a member of the executive exploration and producing committee.

Mr Yates will continue to serve as a director of Caltex Petroleum Corporation, the Texaco joint venture with Chevron Corporation, and of the Arabian American Oil Company, which is owned by Texaco, Chevron, Exxon Corporation and Mobil Corporation and handles production of oil and gas in Saudi Arabia.

Ex-central bank head in old post

By Tony Walker in Cairo



Mr Ali Negm: returning to Arab International Bank

MR ALI NEGM, former chairman of the Central Bank of Egypt (CBE), has been appointed deputy chairman of Arab International Bank, based in Cairo. Mr Negm, who had been chairman of the CBE for two years, resigned last month, following the appointment of a new Egyptian Prime Minister.

Arab International Bank is partly owned by the Egyptian and Libyan governments. Mr Negm was deputy chairman of Arab International before relinquishing the post on his appointment as central bank chairman in 1984.

Hercules sets up top succession

HERCULES, the diversified Delaware concern with interests ranging from chemicals and allied products to aerospace and defence, to engineering, has appointed Mr David S. Hollingsworth, 58, to succeed Mr Alexander F. Gluck, 67, as chairman and chief executive on March 24, when Mr Gluck retires.

Mr Gluck is to be succeeded in a chief office, that of president, by Mr Fred L. Buckner, who will also be chief operating officer.

Mr Arden B. Engbreiten, at the moment vice president and chief financial officer, will suc-

ceed Mr Hollingsworth as vice chairman, while retaining his financial post.

Mr Gluck leaves Hercules after 44 years with the company, and having been president and chief executive since 1977, chairman since 1980. The appointments now announced, he says, complete a "carefully orchestrated" management plan begun in 1982.

Mr Hollingsworth joined Hercules in 1948, and has been vice president since 1986. Mr Buckner's service with the company dates back to 1961, and Mr Engbreiten's to 1959.

Times Mirror president

TIMES MIRROR Company, the California-based publishing concern, has appointed Mr David L. Lavenol as director and president of the company, reports Reuters from Los Angeles.

Mr Lavenol was a Times Mirror vice president. He succeeds as president Mr Robert E. Eburn, who is to continue as chairman and chief executive.

Savin Corporation, the Connecticut marketer of office copy equipment, has announced the resignation of Mr Mel A. Mahler as president and chief operating officer to pursue outside investment-related opportunities, reports Reuters from Stamford.

Mr Mahler, who joined Savin in October 1985, is to continue as a director of the company. Mr David C. Sedler, chairman and chief executive officer, is to

resume the responsibilities of chief operating officer.

SENTEX Corporation, the American pharmaceuticals-based company, has elected Mr Paul E. Freeman president and chief operating officer, from January 1, 1987. Mr Freeman, 52, was formerly executive vice president. He succeeds Mr Albert Bowers, who remains chairman and chief executive.

AGA GAS INC, the US subsidiary of Aga AB, the Swedish industrial gas group, has elected Mr Ake Nyberg chairman, in succession to Mr Marcus Storch. Mr Nyberg is chief executive of Aga Gas. Mr Storch, a group president, remains on the board of the subsidiary.

General Motors reorganisation

GENERAL MOTORS Corporation, the Detroit-based motor vehicles manufacturer, the largest in the US, has pared its executive ranks further with the reorganisation of its North American operations to group Mexico with the US and Canada.

Two corporate vice presidents are to take early retirement on January 1—Mr John McCormick, 63, who is in charge of Latin American and South African operations, and Mr John Beck, 60, who is in charge of international export sales. No replacements are to be made.

It was announced earlier this month that Mr Howard Kehr, corporate vice chairman, was to retire from his post at the age

of 63, and would not be replaced. General Motors has announced plans to reduce its salaried workforce by 25 per cent by 1989, with a view to reducing overheads.

The company's GM de Mexico subsidiary has been taken under the wing of the Chevrolet-Pontiac-Canada car group, to form a single North American business organisation. GM de Mexico had been part of the company's overseas organisation.

FORD MOTOR Company has announced plans to combine its tractor offshoot and its New Holland farm machinery offshoot into one, under the name Ford New Holland, in a move to expand in the industrial equip-

ment and agriculture field.

UNISYS CORPORATION, the second largest US computer company formed earlier this year by the agreed merger of Burroughs and Sperry, has announced that Mr Gerald Probst, Sperry's former chairman, is retiring from the combined board. Mr Probst, 61, said at the time of the merger that he was planning to retire and his departure on January 9 is widely expected. Unisys also said that Mr Frank Carlucci, another director, is resigning as a result of his appointment as President Ronald Reagan's national security adviser.

Accountancy Appointments

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MSL Chartered Secretary

Financial Controller

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In return the company is offering a competitive salary together with an excellent benefits package. A certain amount of European travel is envisaged.

Interested applicants should contact SUSAN TODHUNTER FCCA on 0442 47311 (0442 842201 evening and weekends). Alternatively write to her enclosing a comprehensive CV at the address below. All replies will be treated with the very strictest confidence.



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Group Financial Controller

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Accountancy Appointments

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KUWAIT

Opposition takes first steps
to seek democracy again

By Michael Field



Sheikh Jaber: survived murder attempt

KUWAIT HAS suffered four very bad years. It has been frightened by the Gulf war close to its borders and it has been hit by a series of terrorist bombings, including an attempt on the life of its ruler, Sheikh Jaber Ahmed al Sabah.

In 1982 its unofficial stock exchange, the Souk al Manakh, crashed, and because the Government did not act promptly to resolve the problem, it led to a banking crisis. This has been exacerbated by the collapse of oil prices in the past 12 months.

Finally in July this year Sheikh Jaber dissolved Kuwait's National Assembly, which had been a source of pride to Kuwaitis, partly because it was the only parliament in the Arabian Peninsula and made them feel more mature than their neighbours in Saudi Arabia and the Gulf states.

The ruler's decision was accompanied by a further assertion of his family's control over the executive; now all major Government posts, bar the Finance Ministry, are in Sabah hands. There has also been a tightening of security. The Ministry of the Interior said recently that 27,000 expatriates had been deported in a year.

In recent weeks the parliamentary opposition has begun to react to the dissolution. A committee of members of all political factions, including the nationalists and both Sunni and Shia religious groups, has prepared a petition, asking the Ruler that the Assembly be re-elected.

If this does not bring about a change of heart the committee will organise a further mass petition, and then possibly demonstrations and strikes. It stresses that everything it does will be constitutional and that it will proceed slowly.

It thinks that a campaign of steady pressure, lasting two or three years if necessary, will be more effective than confrontation. The hope is that gradually Kuwaitis will decide that they miss democracy and will make their views known to the ruling family through conversations in the diwan, the council chambers or sitting rooms in which all important Kuwaitis receive their friends.

Kuwaitis are divided in their views on the last Assembly, elected in March 1985. Some, including those members of the establishment and the government, feel that it did not put forward constructive proposals but merely criticised the administration, raking over the coals of the state's financial crisis.

They claim that its members made long, emotional speeches only to gratify their self-esteem. They enjoyed embarrassing the ruling family, and they liked it that the press, much more radical than society as a whole, devoted enormous amounts of

space to reporting what they said. But other influential Kuwaitis admired the Assembly. People attended its debates and cheered, or booed the most powerful speeches.

There are many sober, respectable Kuwaitis who argue that the Assembly was entirely justified in distrusting the Government and demanding that it question its ministers given its sloth and incompetence in handling Manakh and the hundreds of millions of dollars of public money that were lent to save a few members of the ruling family from bankruptcy.

It was the passing of motions censuring five ministers that caused the Government to dissolve the Assembly. Two ministers were said to have been responsible for giving favourable treatment to members of the ruling family after the Manakh crisis. Another, the Minister of Communications, was accused of not having forced Sabah to pay their telephone bills, which in some cases had been accumulating for a decade.

In response to the motions the entire Cabinet handed its resignation to the Prime Minister, and, rather than be with- out a Government, Sheikh Jaber dissolved the Assembly.

He may have been encouraged to do this by the Saudi Government, which had long been embarrassed by the undisciplined and raucous democrats on its northern border. When the Assembly was sitting Saudi citizens used to ask friends to send them tape recordings of its debates.

At the same time Sheikh Jaber imposed rigorous censorship on the press. Before these measures the Government would occasionally sue a newspaper after an article had been published; now the Ministry of Information has censors in every newspaper to approve articles as they are written.

Ten years ago, when it dissolved the Assembly and imposed censorship, the Government announced that it would hold elections for a new Assembly in four years. On that occasion it kept its promise. This time it has said nothing about dates. The Assembly building is now being used to house the Cabinet's secretariat.

Because there is no Assembly, Government and civil service are now less accountable. "There will be more favours in the diwan—see reception room in which the important Kuwaitis meet their friends, remain uninhibited. Anyone, in theory, can take a complaint to the diwan or go to his diwan and give his view on whatever topic happens to be discussed."

But the system of diwan is not equivalent to a parliament. As a businessman and member of a major family put it recently: "Democracy is more than just being heard. It is having a body that can look into legislation in detail and directly transform the opinion of the people into laws. The diwan are only like tribal councils—the rulers listen and if they want to do what they hear they do it. If not, they forget it."

Even among those who are most critical of the last Assembly, it is difficult to find anybody who does not say that eventually he would like parliamentary back.

Also, it is argued, Kuwaiti democracy was important for the region as a whole—however much it annoyed the Saudi and Gulf state ruling families. Except in Kuwait, the system of government in the Arabian Peninsula has not altered since the discovery of oil, while society has been changing extraordinarily fast. The bourgeois intelligentsia, which grows every year as higher education spreads, wants to participate in government. Indeed, even people who are entirely loyal to their rulers often suggest that if the process of government does not change to match the social evolution, the oil states will become less stable.

These people admit that Kuwaiti democracy may have been chaotic but at least its parliament Kuwait was able to develop politically. All the Gulf rulers could see how events in their region affected popular opinion, as expressed by the deputies. And in washing Kuwait they had some opportunity of working out what might happen in their own countries if they were to introduce some form of democracy. Now this opportunity has gone and the Gulf's political evolution has been frozen.

CONTRACTS

£5m coal handling plant order

BUTTERLEY ENGINEERING, a member of the Norcross group, has been awarded a contract for a power station. The contract, worth over £5m, forms part of the Northern Ireland Electricity Services conversion of Kilroot power station on Belfast Lough to dual coal and oil-fired generation and is due for completion in the spring of 1988. Kilroot will receive coal by sea, primarily from the Ayrshire coalfield in Scotland. Colliers will berth at a new jetty with the coal being discharged by a ship unloader on to a wharf container. Butterley's system will then move the incoming coal via a sampling tower to one of two stockpile and reclaim areas or direct to the power station's boiler bunkers. The contract involves Butterley supplying a ship unloader—designed to discharge a 5,000 tonne ship in an eight-hour period—the conveyor system from jetty to power station bunkers and a circular stockpile system with automatic stacking and reclaiming.

RENOULD CHAINS is to supply Jaguar Cars with camshaft roller chain and tensioners worth £200,000 for the new 2.8 and 3.6 litre engines which powers the recently launched XJ6 saloon cars.

WIMPEY CONSTRUCTION has won contracts worth £10m for work on the east and west Midlands. A £1.8m hospital production unit contract for West Midlands Regional Health Authority is being followed by a contract to build a £2.7m headquarters depot at Kettering for the East Midlands Electricity Board. A total of 120 homes are to be built in Birmingham and one to build a £2.7m headquarters depot at Kettering for the East Midlands Electricity Board.

MARCOL COMPUTER SYSTEMS has been awarded a contract by the European Space Operations Centre (ESOC) in Darmstadt, West Germany. Believed to be worth over £1m, the contract covers provision of software for the Mission Management and Control (MMCC) for the "ERS-1" Satellite, scheduled for launch on an Ariane launcher in December 1988. ERS-1 (Earth Resources Satellite) will be the first microwave remote sensing satellite to be launched by the European Space Agency.

It forms a major element of the European Earth Observation programme, covering meteorology, oceanography, land resources monitoring and geodynamics. The prime ground station for controlling ERS-1 is to be at Kiruna in the north of Sweden. The MMCC which Marcol is providing is the central control element of the system, not only responsible for monitoring and controlling the spacecraft, but also for controlling the Kiruna complex. In addition, it processes requests for use of the satellite's instruments which have been co-ordinated by the ESA Earthnet programme office in Italy.

MOLINS has been awarded by Philip Morris USA a contract worth over £10m for the supply of high speed cigarette making and handling systems. The machinery is designed to operate at speeds over 8,000 cigarettes per minute. This is believed to be the first significant order placed by the tobacco industry for cigarette making machinery with capacities in excess of 8,000 cigarettes per minute. The production machines will be installed in Richmond, Virginia from the end of 1987. The machinery will be produced at Molins' main UK plant at Sanderton, near High Wycombe in Buckinghamshire.

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of the US Air Force. Work has started for completion in December 1987.

ALFRED McALPINE has been awarded a contract worth almost £216,000 by Cheshire County Council for the A49 diversion Phase 1 at Warrington. The contract involves the partial demolition and reconstruction of the slab deck, beams, columns and parapets of Warrington Bridge. The bridge, built in 1915, is an early reinforced concrete bridge construction. The 52-week contract which starts on October 20 1986, also includes adjacent roadworks to the bridge.

Work on two housing projects in the West Midlands is included in contracts worth more than £5m awarded by Birmingham City Council. A £2.5m contract has been received for external work on 234 homes at Handsworth for Birmingham City Council, and a £282,000 contract has been placed for modernising 40 homes at Radford, for Coventry City Council. In South Wales, a £718,000 contract for Mid-Glamorgan County Council, involves removing a viaduct and building a new one over the River Taf at Quakers Yard, near Abercromby. Other contracts include a warehouse and offices at Penstryn, West Midlands, for Sweeney Industrial Developments (£472,000); a single-storey catering unit at Bristol Airport, for Laird Catering (£408,000); and minor civil engineering and building works at Billingham, Cleveland, for ICI (£250,000).

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The Finance Director has overall responsibility for the finance function and will play an active role in future strategy and business development.

The successful candidate will be a qualified accountant, probably aged early-mid 30's with a progressive track record of achievement. Previous experience of managing a computerised accounting system is essential. Experience with company acquisitions could also be important. Personal qualities will include flexibility and enthusiasm coupled with an assertive yet tactful style. A strong commercial sense is also required.

Interested applicants should write, enclosing a comprehensive CV to:

ROGER M. HOLLAND (Chairman)
MILES 33 PLC
Miles House, Easthampstead Road
Bracknell, Berkshire RG12 1NJ

MANAGEMENT: Marketing and Advertising

GROLSCH, the Dutch beer in the bottle with a pot-stoppered "swing top" is part of the mythical rumple make-up which includes stonewashed jeans, designer jackets and a Filofax. Twelve months ago, the beer, which is positioned at the small but growing premium-priced end of Britain's buoyant lager market, and is best known in London wine bars, joined the fight for space on the supermarket shelves. But it was packaged in a 44 cl can. "We felt the brand was at a level where it was sufficiently well-known for people to want the brand and not the bottle," says Keith Lay, marketing manager of Grolsch UK.

Putting Grolsch in cans is critical for building volume growth in the UK market where an increasing proportion of beer sales is in the take-home market.

For Britain's supermarkets, which take a large slice of that market, generally will not handle a returnable bottle unless the brand is so well known that they cannot afford not to stock it.

"Paced" development, Grolsch claims, has built the brand sufficiently for existing and new consumers to accept the product in a can. It is still very much on trial with supermarkets, assessing the brand's potential.

The Sainsbury supermarket chain, which has been carrying Grolsch in cans for over a year, says it has been selling a very well.

Victoria Wines, the off-licence chain, has been selling the brand for a similar period, but only in Scotland and the north-west of England. Its own experience, it says, is that the beer has been selling so well that it will be extending the coverage to the South-East.

If sales go well the potential is huge. At present Grolsch accounts for about 1 per cent of the £157m a year take-home trade in premium priced lagers with most of its £15m sales in the UK, this is coming from the public house and wine bar trade where the brand continues to be sold in bottles.

Dermott Magee, managing director of Grolsch UK, says: "If the can fails in the supermarket it simply means we have got our timing wrong and that the relationship between the bottle and the brand is still paramount. We would have to cut ourselves off from the home trade until the brand is bigger. But you have to remember that the supermarket and off-licence business is that an ever magic formula for building sales of the brand. They simply open a door to a market which in the future is likely to grow faster than the on-licence trade."



Pushing past its stopper

Lisa Wood explains the Dutch brewer's strategy for its premium lager

Canning Grolsch was first considered in the UK in 1979 in order to gain access to supermarkets. But the option was rejected. "We recognised," says Lay, "that we had to distinguish the brand from the many others which were appearing. The speciality package was a device to introduce the brand and encourage people to try it."

Magee's marketing philosophy for the UK recognised that small premium brands cannot be treated like big mass market ones. Major brands aimed at a mass market, he claims, can be built up by large-scale advertising, trade promotions and the like with consumers being offered particular propositions.

It is essential with premium-priced products that the consumer believes he or she has made the decision to come to the brand. Therefore brand advertising has to be sufficiently discreet so as not to throw the product at people. The first strand of Grolsch's advertising campaign, started in 1984, cleverly featured the bottle top while the second

strand was a little more abstract. The aim was to increase consumer awareness in the core market so that they went into their local pub and asked for the drink.

Developing the UK and other export markets is one of the major strategic aims of Grolsch, a family-controlled business. Like its competitors it sees little real growth in its domestic market where it enjoys a 14 per cent market share and is the third largest brewer after Heineken and Allied Breweries. Beer sales in the Netherlands, as in most traditional beer drinking countries, are static.

However, in its primary export markets, the US and Britain, the premium-priced lager sector offers major growth. Lager accounts for some 42 per cent of all UK beer sales; the potential exists in drinkers looking for variety and trading up to higher priced products.

Exports of Grolsch developed slowly. It was not until the late 1980s that the family which owns Grolsch even attempted to

develop the brand — brewed in the east of the Netherlands at Grolsch and Enschede — into a nationally distributed product. "Exports began by accident," says Francis de Groot, chairman of Grolsch, who, in the late 1980s, took on the responsibility for exports at a time when natural growth in the Dutch beer market was slowing down.

"Some people came here on holiday from the Channel Islands and they took cases back. Then regular shipments began. Today, Mary Ann, the Jersey brewer, imports the drink."

A similar story led to Grolsch setting up in the US in 1979. Today the brand has national distribution. Sales are small — some 5 per cent of the imported beer market in which Heineken dominates with 40 per cent — but it is a profitable foothold, says Grolsch.

The mid-1970s was also the time Grolsch was attracted to the UK market, even though lager sales were then comparatively small and premium-priced lagers were virtually non-existent. Magee says that brewers were then seeking to import or brew under licence draught continental lagers such as Beck's, Lowenbrau and Carlsberg. Lager was suspicious about a more expensive product that they thought was in an old-fashioned bottle.

Until last Christmas the brand was sold by Watney Mann and Truman. However, Watney discontinued the brand because it could get a product in similar packaging more cheaply from West Germany. However, only this month Watney has started to take Grolsch again. "It must be the strength of the brand's identity," says Lay.

Grolsch appears fairly well pleased with the brand's performance in the UK and there is a growing confidence that the timing of the introduction of the can was correct.

Grolsch is also having to adapt to changes in its home market. In the Netherlands, like the UK, there is a growing thirst for imported beers. Because of this the company has introduced a limited range of imported beers into its domestic market including Bass Ale and Dole's Ale. "We have to protect our own products in the distribution chain," says Magee. "If we offer a range of products we maintain contact for distribution of our major brand." Grolsch, however, is not putting its own marketing skills into the deal. "We are just the distributor," says Magee, "with the brand owners putting in the advertising and support."

Retailing in North America

Giving hassle the heave-ho

Tony Thompson suggests that courtesy towards customers is making a come-back

BEING OBLIGING and helpful to customers is becoming fashionable among many of the very North American manufacturers and retailers which have for years forsaken courtesy in their quest for market share and profit margins. Now that differentials in quality and price are moving closer to parity, service is the latest buzz-word among mass marketers.

In today's hurried society, consumers become frustrated with an impatient retailer who does not seem to care. There are now signs that the sophisticated shopper simply wants hassle-free service and that many service industries are responding. Perhaps the best thing I can say about banks is: "Thank God for banking machines." Now, that's customer service! A consumer panel participant is reported to have said in a recent publication, Profitable Customer Service Techniques, by Anthony Andrejka and Leonard Kobas.

During the 1970s and early 1980s when preoccupation with market share and profit margins was at its height, the actual customer was abandoned in favour of the accountant's profit. In retail stores full-time staff were replaced by inexperienced but cheaper part-timers hired in for peak selling periods.

In Canada, major supermarket chains suffered when elements of service were withdrawn. Miracle Food Mart, an Ontario chain, promised lower prices, but customers would have to pay 5 cents for the carrier bags, which other stores provided free. After handing over \$200 for their groceries, shoppers were more than a little peeved to find they had to pay a 50-cent surcharge for the bags. This was widely held to have been a factor in the company's profits decline as custom

fell away. Miracle eventually dropped the bag charge. "Deep discounting was a practice of the 1970s," says Stephen Owen, formerly Dominion's advertising director and now director of new services with Ogilvy and Mather Canada. "Today most deals are close to parity. What you are going to find over the next eight to 10 years is that retailers — stores, banks, airlines, etc. — will market themselves as brands. Consumers will deal with organisations providing customer satisfaction."

In their book, Andrejka and Kobas note: Low price retailers are at risk when service-minded competitors offer attractive (sometimes below cost) prices on selected items. To meet these special prices would remove most of the margin the price retailer could hope to maintain. This is a tough position to defend.

There's nothing cut-price about American Express' international credit card organisation. The company began highlighting customer service in the early 1980s, when it changed its advertising slogan from the headmasterly "You've earned it" to the guardian angel image of "Don't leave home without it."

"We began to realise that the service quality we provided was recognised by cardholders, but to the people who were not it wasn't clear," says Louis V. Gerstner Jr, president of American Express, New York. "So we have increased the emphasis on service in our marketing."

Having created the image, the company had to live up to the promise of a formidable proposition. Every year, out of the 22m American Express cards issued, 1.5m go astray, about one every 20 seconds. The company boasts that most lost cards are replaced within 24 hours, no matter how far away cardholders are from their home countries. "It cost us millions of dollars to put that capacity in place," says Gerstner. "But we emphasise to our people that the computer systems are just a tool. It's people that count."

And it starts with the top people. Both Gerstner and company chairman James D. Robinson III read customers' letters

each day, answering many themselves. When visiting operations centres, the two chief officers allocate time to monitor incoming phone inquiries and although sometimes interrupted they don't butt in, says Gerstner.

The company rewards staff who go above and beyond the book in helping American Express customers. Later this month a group of 19 employees chosen from the 37,000 employees in 131 countries, will arrive in New York with a companion of their choice to receive their awards, including \$4,000 to spend as they wish.

The effect has been noticeable. Despite intense competition from clearing bank cards 10 per cent more American Express cards were in force in 1985 compared with a year earlier and net income was up by 19 per cent at \$461m for the same period.

What American Express appears to be managing globally seems to have been lost on many businesses operating on a smaller scale. "In some big department stores the top brass are so far removed from what's happening in their stores it's pathetic," says Gerstner. "For us it's the fundamental essence of our business strategy. It involves how we commit funds; how we communicate to people."

"Profitable Customer Service Techniques, Retail Council of Canada, 210, Dundas Street W, Toronto, M5G 2E8, C\$99.95.



"When the next score is 850 million, customer satisfaction sure isn't the buzz-word"

involved, you're wasting your time." Andrejka says the decline in service began with the recession in the early 1980s. In many chains more than 60 per cent of the sales staff are part-timers. "You're not going to be very loyal if you are only paid half what a full-time worker is receiving," says Andrejka.

The pace to provide added customer services is faster among those service industries that at one time appeared to present a cavalier attitude to wards their customers, such as banks and airlines. In fact, off competition from other financial institutions, clearing banks are extending branch hours to suit local needs; many now open again on Saturday mornings to provide full banking facilities, including interviews with the manager.

Airlines keep adding extra perks for passengers who fly with them. Wardair, Canada's number three airline, is offering up to \$100 in gift vouchers to passengers if they are not checked in within two minutes, their flight leaves late, or their baggage is not delivered within 10 minutes of the passenger's arrival at the baggage claim area.

Keeping in touch with the customer is beginning to move back to the manufacturers, too. Many package goods companies are including 1-800 (Free-phone) numbers on their products, inviting consumers to call with complaints, instructions, or for a daily recipe.

Andrejka and Kobas say improved customer service programmes almost always "translate into lower operating costs and higher productivity." And, with other purchasing methods gaining ground, such as direct response and in the future electronic shopping through home computers, service will become essential for survival for many traditional methods of distribution.

"The idea that service is the last marketing tool is not an exaggeration," says Gerstner. "For us it's the fundamental essence of our business strategy. It involves how we commit funds; how we communicate to people."

"Profitable Customer Service Techniques, Retail Council of Canada, 210, Dundas Street W, Toronto, M5G 2E8, C\$99.95.

TECHNOLOGY

A NEW paint will come on the British market next month that can do the seemingly impossible — paint the chequered pattern of a chess board with only one sweep of a spray gun.

But painting chess boards is merely a means to demonstrate the scale of the technological advance. The paint's real value is in the furniture industry, where it makes possible cheaper and easier production of two-tone kitchen and bedroom furniture.

The effect of this on both design and unit costs is already apparent in Sweden, according to the coatings company Wilhelm Becker, which developed the paint.

Becker has been quick to take out world patents for the invention. The coating is part of a renewed high technology drive by the company, which has just spent nearly \$2m on new research laboratories for its industrial paints.

This is a large sum for a small company competing against such international paint giants as ICI, BASF, PPG and Hoechst. Moreover, of 350 Becker employees in Sweden, more than 100 now work in various laboratories. The company says that only through combining its marketing and research and development (R and D) philosophies can it justify such heavy spending and steal a march on the paint market leaders.

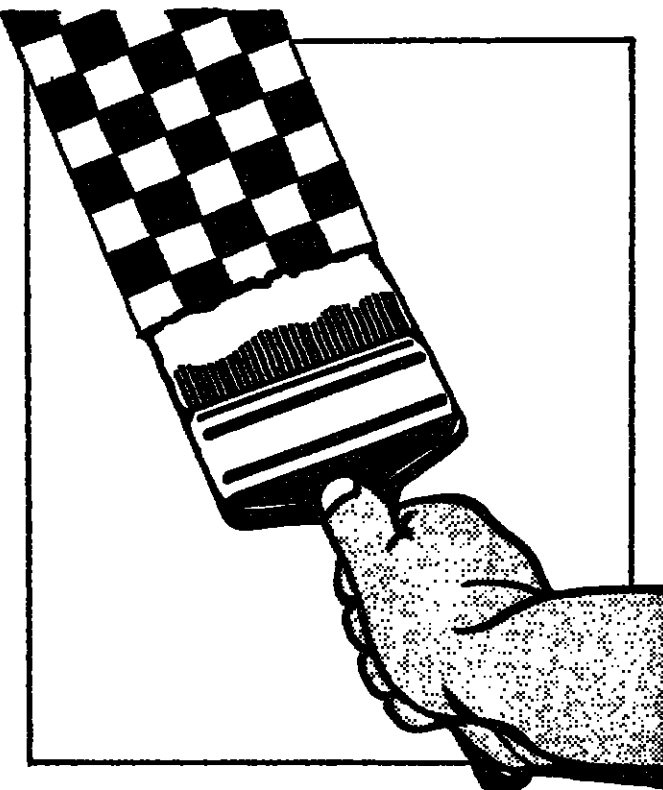
Coran Wikstrom, president of Becker Industriar, says: "People ask us if we, as a little company, are mad to be doing this. But we have R and D by marketing objectives. We take problems in our markets and solve them in the laboratory. We do not develop things and then look for markets. Products are customer-driven, not research-driven."

The two-tone paint is an example of this philosophy at work. The marketing objective was to allow customers in the furniture industry to improve design and style without incurring the high costs of hand-finishing that would in turn have to be passed on to consumers.

The paint is a two-pigment mixture. The key to the way it works is that particle sizes of the two pigments are widely different from each other. Spray the paint on a right type of absorbent surface and the small-particle pigment will be absorbed, leaving the bigger particles of the second pigment on the surface.

Spray the paint on to a non-absorbent surface, however, and the whole mixture will lie there, with the two pigments interacting to produce another colour.

For example, a mixture of blue and yellow pigments would produce green if sprayed onto



Multi-coloured dream coat

Ian Hamilton Fazey explains why Becker of Sweden has changed its pattern of paint making

a non-absorbent surface. But if, say, the blue pigments were carried on smaller particles than the yellow and the mixture sprayed on to an absorbent surface, the blue would soak in, leaving a yellow surface.

Now take a piece of wood, sand it smooth by machine and spray with a primer to make the surface non-absorbent. Next out a pattern in it — and it can be much more complicated than checks. The gouged-out area of the pattern will be absorbent while the surrounding and adjacent primed surfaces will not be. In practice, the furniture industry cuts such patterns and grooves by numerically controlled machine tools.

Spraying with the new paint, which Becker calls Arabesque, will produce one colour on the non-absorbent, primed surface and another in the cut-out pattern. In the example above the main surface would be green and the cut-out pattern yellow.

The paint comes in a wide range of complementary colours many of them very subtle, with a promise that new combina-

cularly crucial for some of Becker's car paints.

The company is a main supplier of paint to Volvo and Saab. "We have to be certain that the paint we send to Volvo for application at its factory in Gent in Belgium is identical to the same type of paint that Volvo applies to a car in Gothenburg in November," says Mr Wikstrom.

Batches can be tested exactly in the new test paint shop — and specifications can be modified to ensure universality of colour and performance wherever it is applied and whatever the surrounding conditions.

This is going to prove critical to a prototype paint being tested on the Saab of Becker Group's international vice-president, Sten Skog. This looks like any other two-tone car paint, but it breaks what were thought to be immutable laws for giving metallic paints their sheen.

That sheen comes from putting aluminium particles in the paint, but usually it only works if the paint is applied very thinly to allow the aluminium particles to lie flat. If they crowd together, they stick up and, making the colour between light and dark shades as the observer walks round the vehicle.

The paints are thinned with solvents that emit troublesome gaseous pollutants. Car manufacturers have come under increasing pressure in North America, Scandinavia and West Germany to reduce solvent emissions from their factories.

Although ICI has a world lead in solving the problem by making metallic paints with water solvents, this requires modification of paint shops. Car makers have, therefore, tended to consider this product only when constructing new manufacturing facilities.

Becker is working on a water-based metallic car paint too. But, lacking ICI's industrial muscle, it is realistic about its ability to persuade customers to change. It has therefore taken some technology from PPG and modified it to tackle the metallic paint problem from another angle.

Mr Wikstrom will not say how ICI's technology is used to keep aluminium particles flat in a thicker, "high solids" paint mixture. This cuts solvent emissions by 80 per cent, as opposed to 85 per cent taking the ICI water-based route, claims Becker, and no modifications are needed to the paint shop.

Mr Wikstrom gets his new company car, a Volvo, in a few weeks. It too will be painted with one of the new high-solids metallics. He is hoping for the present mild winter in Sweden to worsen, so he can give the coating a really stern test.

WORTH WATCHING



Edited by Geoffrey Charlish

Plessey detective takes a long-shot

PLESSEY RESEARCH at Caswell in the UK has developed a small, infrared security detector able to sense the presence of humans, animals or vehicles at ranges up to 75 metres.

It does so by sensing the small amount of heat (infrared, radiated by living animal tissue and vehicle engines). A special lens made from germanium rather than glass collects and focuses the heat rays on to a detector that generates an equivalent electric current. Only current changes, produced by movements, are sensed.

The device, designated PSR 711, is only 25 mm (about one inch) in diameter and 120 mm long. The lens allows it to be pointed at a relatively small area like a door or window. The small size of the device

and its cable-connected control box (125 x 60 x 57 mm) means that the system is easily hidden. Furthermore, the fact that it is "passive" (does not itself radiate as do "active" devices) means it cannot be detected easily by unwanted intruders.

How ICI masters industrial logic

ICI SUBSIDIARY, Industrial Efficiency Systems of Middleborough, UK, has launched Auditor PC, a computer, screen and keyboard unit which will control and supervise a plant network of programmable logic controllers (PLCs).

PLCs are devices that can be programmed to run sequences on individual pieces of plant or machinery. With Auditor PC, a process operator can program any make of PLC from a central location and get back management summaries and trends about the process. Time is saved and efficiency improved.

ICL circuitry: A change of protocol

INTERNATIONAL COMPUTERS (ICL) of the UK is to introduce MAP (manufacturing automation protocol) at its printed circuit board plant in Kidsgrove, Stafford.

The scheme is backed by the UK Department of Trade and Industry which will meet 25 per cent of the expected £5.5m implementation cost. An autumn 1987 start up is planned.

French shortcut to top of building

V-ROOF is an instant building system design from France which is said to allow 80 per cent of construction work to be carried out in the factory, thus making for faster completion of on-site operations.

According to Mr Yves Theault, who designed the system, three building workers could roof an area the size of a five-a-side football pitch in two days, including installation of services.

The roof consists of interlocked "V" sections six feet wide and 72 feet long. The ends of these sections rest on concrete or metal-frame wall

Hoechst makes a case for sunlamps

HOECHST, the West German chemical company, has introduced engineering plastics based on PBT (polybutylene terephthalate).

Called Hoesolux, a principal characteristic of the material is good dimensional stability at high working temperatures and it has already been used by Reiber in Germany to make an infrared health lamp casing (reinforced with 20 per cent glass fibre). Because of the heat thrown out, such lamp shades and fittings are usually made from metal.

Hoechst says that its new material also exhibits no stress cracking, has high abrasion resistance and retains its shape well. It can also be lacquered.

BT speaks out on share prices

BRITISH TELECOM is conducting trials of a new share price service in which a computerised voice will "speak" the information requested by the caller.

The user needs a touch-tone keypad telephone. Having phoned the service, called Citycall Portfolio, he keys in the codes of the shares in which he is interested. A Compaq computer interrogates its database, provides the necessary words and numbers and a voice card in the computer converts the information into speech.

CONTACTS: Plessey Research: UK, 0227 50681. Industrial Efficiency Systems: UK, 0642 227681. Theault & Co, Tracy sur Mer, France, 3122 5180. ICL: London, 788 7272. 87 Citycall, London, 241 7401. Hoechst: London office, 570 7712.

Fuel injection moves into the driving seat

BY JOHN GRIFFITHS

NINE out of every ten cars produced in the US in 1990 are likely to be fitted with electronic fuel injection (EFI) systems, thus virtually consigning the carburettor to history, according to a new report from Planning Research & Systems, the statistics and forecasting group.

PR&S predicts that 69.3 per cent of Japanese car production in that year will incorporate electronic injection, and 45.3 per cent of cars produced in Western Europe.

Usage of such systems made quantum leaps between 1982 and 1985 in all three main car producing areas, PR&S statistics show.

In Western Europe during that period the share fuel injected cars took of total production rose from 11.2 to 19.6 per

cent; in the US from 17 to 58 per cent; and in Japan from 16.3 per cent to 29.4. This year, says PR&S, West European usage will have risen to 23 per cent, the US to 70.5 per cent and Japan to 38.1 per cent.

These percentages exclude diesel-engined cars, all of which are fuel injected, and which in Western Europe PR&S expects to account for 18 per cent of all car production this year. (Diesel cars are virtually non-existent in the US, and accounted for only 3.7 per cent of total Japanese car production last year.)

The growth of "EFI" will be encouraged mainly by the demand for more powerful engines arising from the lower real price of fuel. But other factors, such as its lower pollutant emissions and its image-making marketing

role are also at work, points out PR&S.

And while improved electronic control of carburettors could prove a viable alternative to injection for small engines in Europe, "it is probable that all petrol cars over 1.4 litres will use fuel injection" as a result of pending EEC legislation to reduce exhaust emissions.

The higher penetration of fuel injection already achieved in the US reflects the ever more stringent requirements of the CAFE (corporate average fuel economy) legislation, and the widespread use of a simple, single-point injection system, rather than carburettors. However, as US cars switch increasingly to four, rather than six or eight cylinders, "so to

wards the end of the decade we expect multipoint injection increasingly to displace the single point, throttle body injection systems currently dominant."

However, says PR&S, "dominantly the sophisticated multipoint injection systems and is likely to remain ahead in their applications, says PR&S."

Contributing factors are a faster rate of new engine introduction than in other of the Japanese producers in the medium and large car segments.

World Fuel Systems Market Research Centre, 1983-1990, PR&S Business Publications, Premier House, 44-48 Dover Street, London W1X 2RF, 8760.

Semiconductors

A deep recession in demand has forced losses and lay-offs among US manufacturers, who are under pressure from Japanese imports. As the industry matures a smaller group of global companies is expected to emerge

Facing hard realities

By Louise Kehoe

"NEW REALITIES have changed the semiconductor industry forever," W. J. Sanders III, chairman and chief executive of Advanced Micro Devices, told shareholders at the company's recent annual meeting in Silicon Valley, California. For AMD, and for many of its neighbours, reality has meant layoffs, cutbacks and losses throughout 1986. The worst recession in the semiconductor industry's 30-year history may leave a permanent scar on US chip makers. It will also mark the beginning of a major restructuring of the world semiconductor industry, many believe.

The chip business is "maturing," say industry analysts, into a "global" industry in which a smaller group of international companies will compete against each other on a worldwide basis. While 1987 should bring some improvement in business conditions and a world market growth rate of about 10 per cent, it will not reverse the trend towards consolidation of the industry.

The historic rate of world growth in demand for semiconductors is slowing down, analysts believe, from an average 18 per cent per year to less than 13 per cent.

What the industry needs, some say, is a new "boom" product—something that can create a sudden surge in chip demand as did the personal computer, the electronic calculator and the digital watch. Without such a product, growth in semiconductor sales will be linked to the modest economic growth rates forecast for the major consuming nations.

The harsh reality that semiconductor manufacturers worldwide currently face is that demand will not match up to the gross surplus in existing chip production capacity for the foreseeable future.

This year more than 40 per cent of world semiconductor production capacity in the US, Europe and the Far East—has lain idle, analysts estimate. This unused plant, much of which will be obsolete within a few years, represents a major capital drain on semiconductor manufacturers.

The chip makers' problems are multiplied by the rising capital cost of semiconductor manufacturing. A state-of-the-art chip production plant costs at least \$100m to set up today. In ten years it is projected to cost \$300m.

Only large conglomerate companies, or those backed by government funding, will be able to supply the capital needed to survive in the semiconductor industry of the 1990s, some analysts predict.

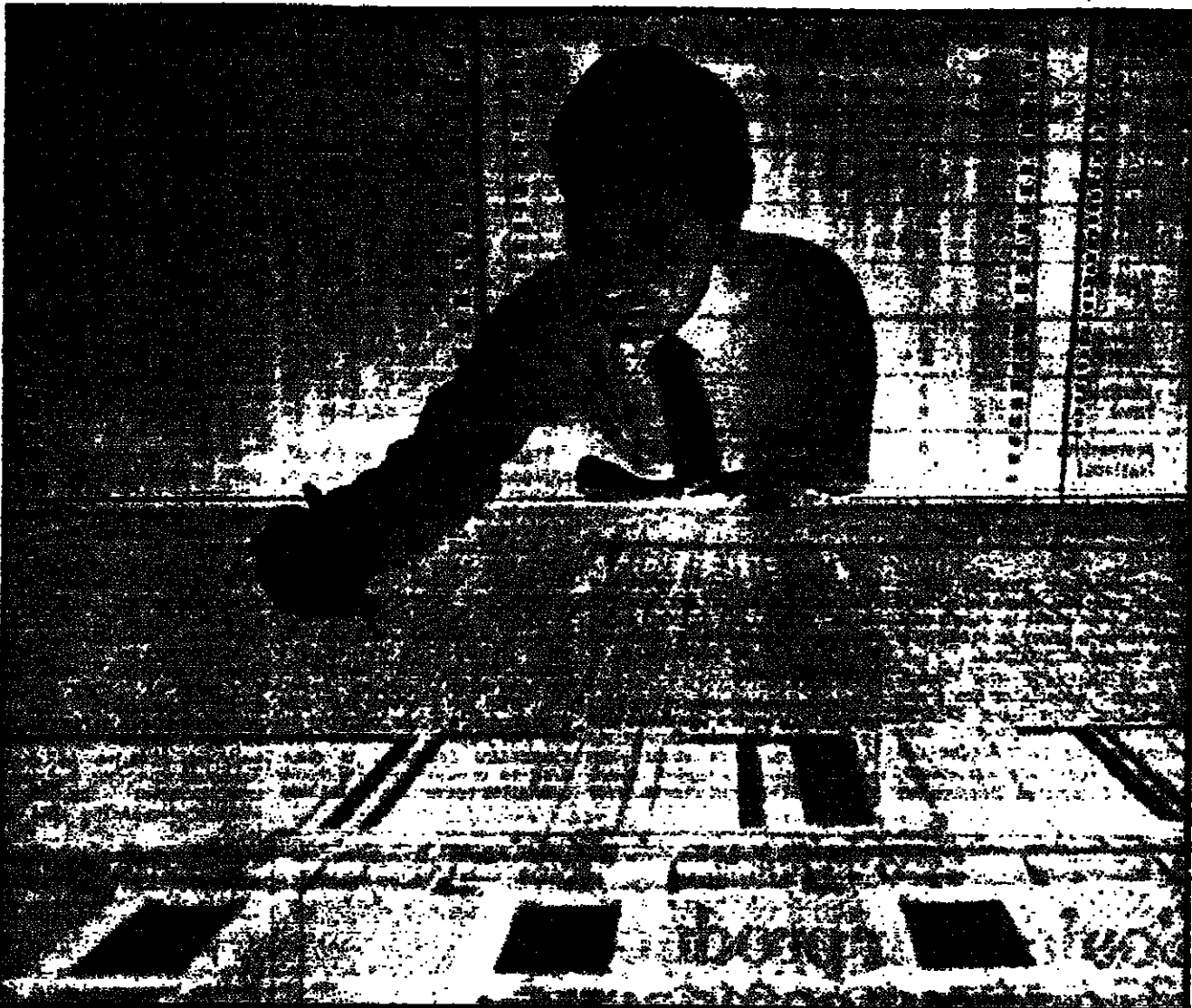
US chip makers, several of which are independent, relatively small companies, have been hit hardest by the rising capital costs of the semiconductor business.

"We have got to cope with the fact that most of the world that we as a US industry compete with is subsidised and we are not," says Mr Jon Corneli, executive vice-president of Harris Semiconductor. "It is the deep pocket problem."

In the US, that "deep pocket" may turn out to be the Department of Defense. US chip makers plan to seek as much as \$1bn in Defense Department funding for a collaborative venture designed to restore their manufacturing technology leadership.

The economics of chip manufacturing would appear, however, to favour Japan's large conglomerate companies rather than Silicon Valley's independent semiconductor producers.

The Japanese industry itself, however, now faces new challenges. The rising value of the yen, growing trade friction with the US, and the competitive pressures from countries



Checking the blueprint of a 32-bit microprocessor containing 70,000 transistors. The chip, designed and manufactured by National Semiconductor of California, can process more than a million instructions per second

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Japan, though the trends point to an increase.

The expectation, says one forecast, is that demand and shipments will increase substantially next year.

Sales by US-owned companies in Europe are significantly greater than those by European and Japanese-owned organisations and the "Silicon Valley connection" will prove hard to match. However, investments are being made, for example by Philips and Siemens in a joint venture to develop advanced memory chips.

In France, Thomson, supported by the government funding, bought into Silicon Valley know-how last year by acquiring US assets. Now it is consolidating this approach by teaming with SGS, the semiconductor maker controlled by the state-controlled IRI group of Italy, in a FFr 1.5bn four-year programme to develop an advanced super memory chip.

The key to Europe's future in the market will be research, and the ability to produce chips that user manufacturers demand at the right price.

One trend that will help Europe's makers against the power of the US and Japan is the increasing demand for semi-customised chips for specialised applications. Where demand for particular products is conditioned less by price than the ability to deliver exactly what the buyer needs, Europe's smaller companies are possibly in with a chance.

Yet to be seen is the extent to which the Japanese extend manufacture in Europe, following for example the steady march westward of Japan's consumer electronics industry.

And a further factor, affecting all the main manufacturing countries, is the emergence of newly-industrialised and highly price-competitive countries such as Korea and Taiwan, where investment and manufacture to Western and Japanese standards in various industries is becoming the norm.

World consumption of semiconductors (\$m)

	1982	1983	1984	1985	1986	1987	1988	1989	1990
US	6,259	7,783	11,599	8,991	8,429	8,369	8,677	10,177	11,479
Japan	3,985	4,534	8,054	7,095	9,533	10,489	12,247	12,247	12,924
Europe	2,908	3,219	4,788	4,541	5,381	5,703	6,480	7,136	7,136
Rest of world	832	1,152	1,594	1,250	1,781	2,036	2,338	2,813	3,306
Total world	14,064	17,767	25,935	21,479	25,423	27,075	27,362	31,816	35,844
Percentage growth	n.a.	24.2	46.1	-17.2	18.4	6.5	0.7	16.7	12.7

Source: In-Stat Incorporated.

Who's spending £50m on a new plant?

Plessey success in the world microchip market has sown the seeds for future growth in Britain.

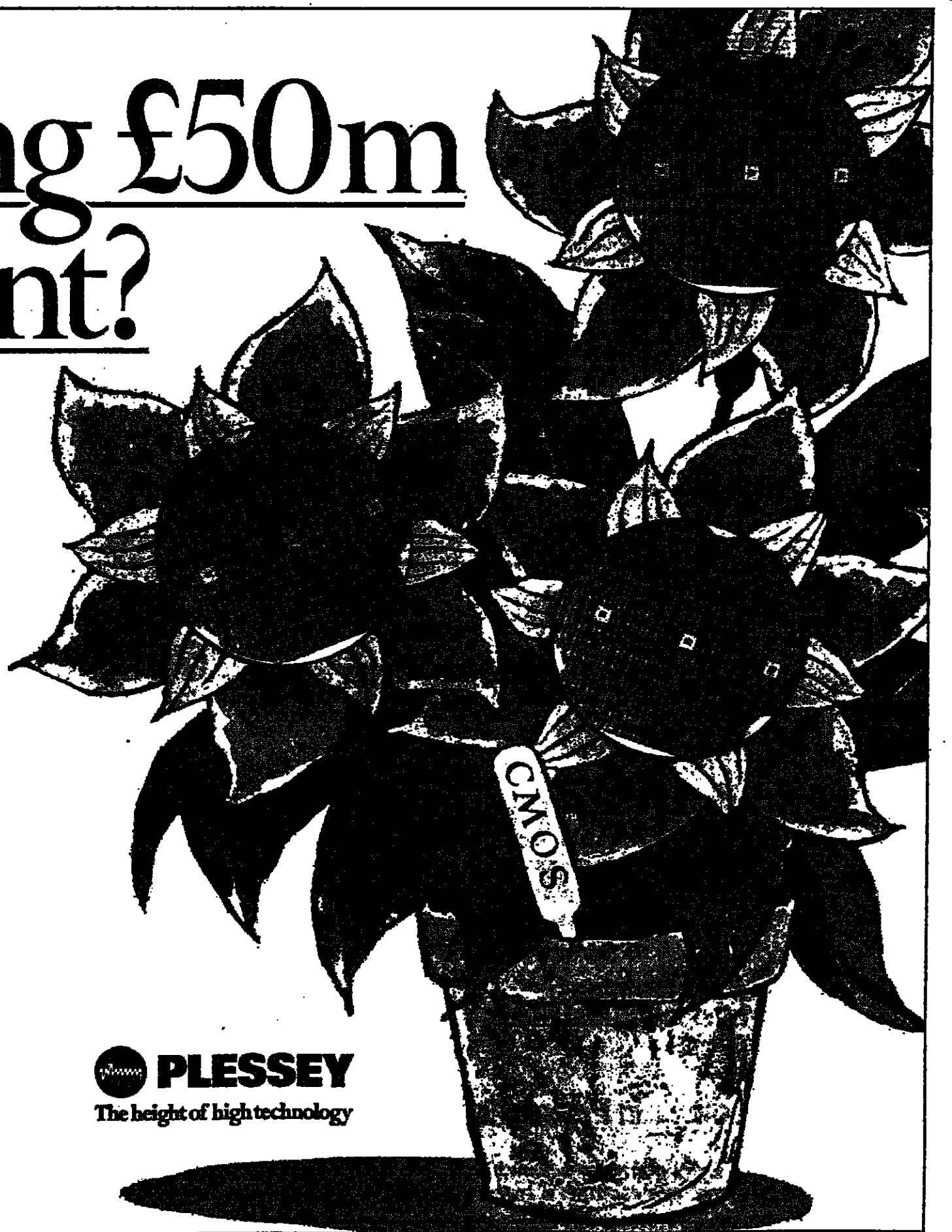
We're investing £50m in one of the world's most advanced silicon chip fabrication plants at Roborough near Plymouth. With the capacity to process upwards of 12,000 six-inch wafers a month, it will help us to retain our position as the largest British manufacturer of semiconductors.

In gallium arsenide, Plessey already has Europe's first foundry and we're investing heavily to consolidate our world lead in GaAs technology.

Staying ahead in microchip technology will keep us ahead in the key markets which rely increasingly on advanced electronics—particularly telecommunications and defence systems. The very markets in which Plessey has consistently beaten the toughest competition to win major export orders throughout the world.

It says a lot about Plessey expertise. Even more about its marketing skills and the determination of its management to develop Plessey further as a world force in microelectronics.

We're making the investment.
Now watch us keep on growing.



PLESSEY
The height of high technology

Plessey and the Plessey symbol are trademarks of The Plessey Company Ltd.

Semiconductors 2

World market

Price increases follow trade friction

TRADE FRICTION between the US and Japan has dominated the world semiconductor market throughout 1986. The broad US Japanese semiconductor trade agreement, reached at the end of July, has so far done little to calm the resentment on either side of the Pacific.

The four-month-old trade agreement has, however, already had a dramatic impact upon world trade in semiconductors, causing price increases in the US, and problems for semiconductor buyers worldwide.

The trade pact has two major objectives:

- To provide increased access to the Japanese semiconductor market for foreign producers; and
- To prevent Japanese semiconductor manufacturers from "dumping" their products at prices below "fair market value" in the US and other world markets.

While it is too soon to say whether the first objective of the pact is being met, US semiconductor companies have already begun to increase their presence in Japan, aiming to take advantage of improved opportunities.

Motorola, the second largest US semiconductor manufacturer, recently reached a joint venture

Top ten semiconductor suppliers—1986

Company	Rank 1986*	Rank (1985)	Forecasted sales (\$m)
NEC	1	(1)	2,865
Hitachi	2	(4)	2,270
Toshiba	3	(5)	1,975
TI	4	(2)	1,970
Motorola	5	(3)	1,820
Fujitsu	6	(6)	1,560
Philips	7	(7)	1,100
Intel	8	(8)	1,065
Matsushita	9	(10)	985
National	10	(9)	970

* Forecast. † Including Signetics.

Source: Integrated Circuit Engineering Corporation.

agreement with Toshiba under which the two companies will build a new plant in Japan. Each licence each other to produce a wide range of products.

It is however the "anti-dumping" aspects of the trade agreement that have created most of the controversy surrounding the pact. Under the terms of the trade agreement, the US Commerce Department

is empowered to determine the "fair market value" for memory chips made in Japan. Each Japanese producer is assigned an FMV for its products on a quarterly basis.

The immediate impact of this system has been a dramatic rise in Japanese memory chip prices in the US, with some companies being assigned much higher FMVs than others. Over

recent weeks, new lower FMVs have been assigned but prices in the US remain significantly above those in Japan, Europe and Asia.

In attempts to circumvent the trade agreement, large quantities of chips have been diverted through "grey market" channels to US buyers. According to the Japanese Ministry of International Trade and Industry, Japanese chip exports of Canada went up by 572 per cent in October, while Latin America's imports doubled. Many of these chips are believed to be finding their way into the US.

Taking a different, and legal, approach to the problem, Nippon Electric Corporation plans to increase its production of memory chips at its US plant in California by 60 per cent over the next three months. Similarly, Texas Instruments (which has a major memory chip production plant in Japan) is also increasing its exports from Japan. And in a move that has raised considerable concern in the US, Fujitsu, Japan's largest electronics company, is planning to combine its US semiconductor operations with those

of Fairchild Semiconductor, a major Silicon Valley producer, and acquire an 80 per cent stake in the combined company.

However, it is the impact of the trade agreement in "third country" markets outside the US and Japan that has caused most criticism of the trade agreement. In Europe the trade agreement has been challenged as illegal under GATT.

So far such complaints are academic, according to US government and industry officials, who say Japanese semiconductor manufacturers have simply ignored aspects of the trade pact that prohibit the "dumping" of Japanese chips in third country markets.

Memory chip prices in Asia and Europe remain significantly lower than those in the US, according to US chip makers and buyers. At the latest round of US-Japanese negotiations on the issue, last month, MITI officials agreed to monitor exports more closely and to issue "administrative guidance" to Japanese companies emphasising the need to comply with the terms of the pact. The US government has agreed to "wait and see" whether MITI's actions will be effective in curbing Japanese dumping, but the US semiconductor industry is already demanding that sanctions be imposed against violators.

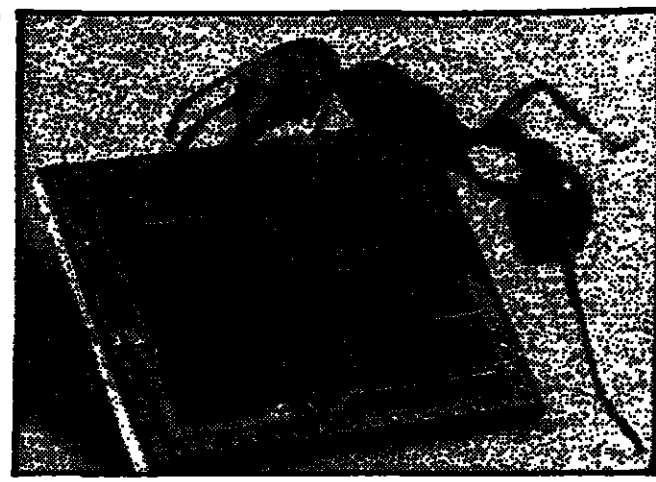
Caught in the middle of this row are US chip buyers—makers of computers, telecommunication equipment and other electronic gear. They face the prospect of their foreign competitors gaining a cost advantage because of lower chip prices abroad.

Japanese trade statistics would suggest that the rush to off-shore manufacturing in lower labour cost countries is already under way. Japanese chip exports to Asia doubled in October. But several other factors, including the high value of the yen causing Japanese companies to increase their off-shore production, may also be involved.

According to Dataquest, because of increased off-shore manufacturing, \$700m in semiconductor devices that otherwise would have been consumed in Japan and the US were instead consumed in the Pacific Basin region of Korea, Taiwan, Hong Kong, Malaysia and Singapore during the first half of 1986.

Demand for semiconductors in the Pacific Basin countries has risen by over 60 per cent this year, the market researchers say. Much of this growth is attributable, however, to the booming consumer electronics and personal computer manufacturing industries in these countries.

Louise Kehoe



The microchip made from the blueprint on the previous page, with an ant to provide scale

The US

Siege mentality after losses

A SIEGE mentality permeates the US semiconductor industry. Threatened by Japanese competition and facing the worst recession in the industry's history, US chip makers have "circled the wagons" to join forces in facing the industry's problems.

The need for a concerted effort is only too clear. Last year, US chipmakers recorded combined losses of more than \$1bn. This year's results will not be much better. Layoffs have reduced employment in the industry by an unprecedented 60,000 jobs since the recession first struck in late 1984.

Another measure of the US semiconductor industry's woes is the gross surplus of manufacturing capacity. According to industry estimates, almost half the US industry's production capacity has been unused over the last two years. That represents billions of dollars of capital investment producing no return for the chip makers.

Nor can US semiconductor manufacturers count on a sudden surge in demand to boost their profits. According to most industry analysts, there is no new "electronic hulla hoop" on the horizon that will create new demand for chips, as did the electronic calculator, the digital watch and the personal computer in the past.

To make matters worse, foreign competition, primarily from Japan, has steadily eaten into the US chipmakers' markets, both at home and abroad. For the first time in the industry's history, this year Japanese chip manufacturers will

outsell those of the US and the largest US merchant chip maker, Texas Instruments, will be relegated to the position of fourth in the world, behind three Japanese companies.

"The good news is that we are facing up to reality. We are weary of playing the part of the terminally ill industry and are taking positive actions to solve our problems," said Jon Cornell, senior vice-president and semiconductor sector executive at Harris Semiconductor.

Within the "circled wagons" of the US chip industry, the mood is surprisingly optimistic. Industry leaders believe that the combined effects of the lower value of the dollar and the US-Japanese semiconductor trade agreement that promises greater access to the Japanese market will create important new export opportunities.

And there are some signs that market conditions will improve in the US next year. Dataquest, the US market research firm, projects a 12 per cent growth rate for the US semiconductor market in 1987, up from 6.4 per cent this year. Improved market conditions, however, will depend largely upon the fortunes of the US consumer industry. Until capital spending and thus computer purchases trend upward, there will be no real recovery.

For some, the timing of the upturn may mean the difference between collapse and survival. W. J. Sanders, chairman of Advanced Micro Devices, put it: "There will be blood on the ground before this is over." Particularly vulnerable are the

independent "merchant" manufacturers, who lack the financial strength of diversified operations on which to fall back.

For the first time in this young industry's history, there is now a widespread understanding that the next upturn, when it eventually comes, will not bring an end to all of the industry's problems.

"New realities have changed the semiconductor industry forever," said Mr Sanders. "We must face the fact that the world has advanced to the value of technological leadership. The United States is no longer the unchallenged leader in high technology."

Although next year may bring increased semiconductor demand, international competition will not go away, neither will the question of how to fund the enormous sums needed to advance the state of the art of semiconductor technology, or the costs of new production facilities estimated at \$250m per plant by the end of the decade, the US industry now recognises.

Collectively, the US chipmakers have dramatically changed their attitude toward what must be done to save the industry. "We have stopped taking a position of simply blaming (the Japanese). Blaming is not enough. What we have concluded is that we must act, or, indeed, perish," said Mr Cornell.

The industry, that in many ways has been the role model for entrepreneurial high technology, is now turning away from "self-determination" toward "co-determination."

"Historically, we have tended to go it alone in terms of R and D activities for the benefit of competitive advantage," Mr Cornell said. Now the industry had recognised "that dealing with the problems of technology for the future is something we must do as a group of us individually can deal with. We have faced up to that."

Banking, high on the industry's action plan is a co-operative manufacturing venture. "Sematech," as the project has been named, is a plan for a \$1bn effort to put the US back in the lead in semiconductor manufacturing technology by constructing an advanced production facility to be jointly funded by chip makers, major users, including the leading US computer manufacturers, semiconductor production equipment makers and, most importantly, the US Government.

Sematech is expected to focus upon high volume manufacture of memory chips, in particular dynamic random access memory (DRAM) chips. At present, Japanese manufacturers hold a commanding 90 per cent of the \$1bn world DRAM market. Sematech would give US manufacturers an opportunity to regain strength in DRAMs while also developing new production technology for the next generation of very large scale integrated (VLSI) chips of all types.

Louise Kehoe

Europe

Coming out of the doldrums

Semiconductor sales in Europe-1985

TOP 5 EUROPEAN-OWNED COMPANIES		TOP 5 NON-EUROPEAN COMPANIES	
	\$m		\$m
1 Philips	596	Texas Instruments	468
2 Siemens	270	Motorola	389
3 Thomson	249	NEC	218
4 Telefunken	183	Intel	212
5 Plessey	66	ITT	155

Source: Dataquest.

application technology. Part of the new facility will be devoted to work on the Megaproject, an ambitious joint venture with Siemens of West Germany, to which the two companies have devoted 1.5bn Dutch guilders in an attempt to match Japan's leadership in advanced memory chip technology.

Philips recently installed a new line at its Hamburg plant to meet what it describes as a soaring demand for 8-bit MOS microprocessors.

Thomson, France, supported in recent years by substantial funds from the French Government, is taking a more international perspective than previously. Last year, it acquired a US base by buying from United Technologies many of the assets of Mostek, a leading Silicon Valley company. Thomson is seen as a world leader in integrated circuits on smart cards.

SGS-Ate, part of the Italian Stet group, last year began mass production at a large plant in Singapore as part of an aggressive international expansion effort.

Plessey of the UK, is ploughing 250m into a new 6 in CMOS wafer plant at Baborough, which it sees as the flagship of its semiconductor effort. It hopes that about 70 per cent of the new plant's output will be sold eventually outside the UK, mainly into the telecom, instrument and digital signalling markets.

European Silicon Structures (ESS) recently delivered its first commercial microchips a year after its launch. ESS is pioneering in the degree it is stressing European co-operation, almost 150 engineers and semiconductor designers of various nationalities are working for the company. Like many European semiconductor companies, ESS is concentrating on custo-

omised chips, the type of semiconductor needed increasingly by companies in relatively small numbers for specialised applications.

An extra spice being added to the European brew is trade friction. Motorola says Europe's trade deficit in semiconductors this year will be \$2,850m. Tension at present centres on the Japanese.

This year, according to Motorola's figures Japanese companies will sell \$900m of semiconductors in Europe, 12 times the value of semiconductors flowing into Europe from Japan. The Europeans are suspicious of the US-Japanese semiconductor trade pact, negotiated in July to stop Japanese manufacturers dumping semiconductors in the US. EEC countries have complained, under the terms of the General Agreement on Tariffs and Trade, that the pact also seeks to fix prices in Europe.

The precise effect of the pact in Europe, however, is less than clear. Mr Jim Beveridge of Dataquest says that prices have steadied in the European market because of the pact: 256K dynamic RAMs are now priced at \$2.25-\$2.55, without the pact, they would be below \$2.

In contrast, Mr Neville Lyons, secretary general of the European Electronic Components Association (EECA), the European trade association, says that prices have fallen in Europe since the pact was signed.

The European industry, through the EECA, fears that Japanese chip producers, stymied in the US, could redouble efforts to gain market share in Europe by undercutting prices of local producers. It is complaining that the Japanese are dumping into Europe some semiconductor products. Its main concern focuses on

dynamic random access memories (DRAMs) and erasable programmable read-only memories (EPROMs).

The European Commission, if it upholds the anti-dumping case, could impose punitive duties on imported Japanese semiconductors, as it has this year on photocopyers. To judge from previous anti-dumping cases, this might in turn precipitate a wave of inward investment by Japanese chip makers into Europe.

Mr Takao Negishi, director of the European Office of the Electronic Industries Association of Japan, predicted in a speech in May that Japanese investment in Europe, which so far has been mainly in consumer electronics goods, could spread soon to electronic components and industrial electronics.

NEC's decision to launch a full production line for semiconductors in Scotland may be highly significant, because, in the past other Japanese electronic companies have quickly followed after one has started making a specific product in Europe.

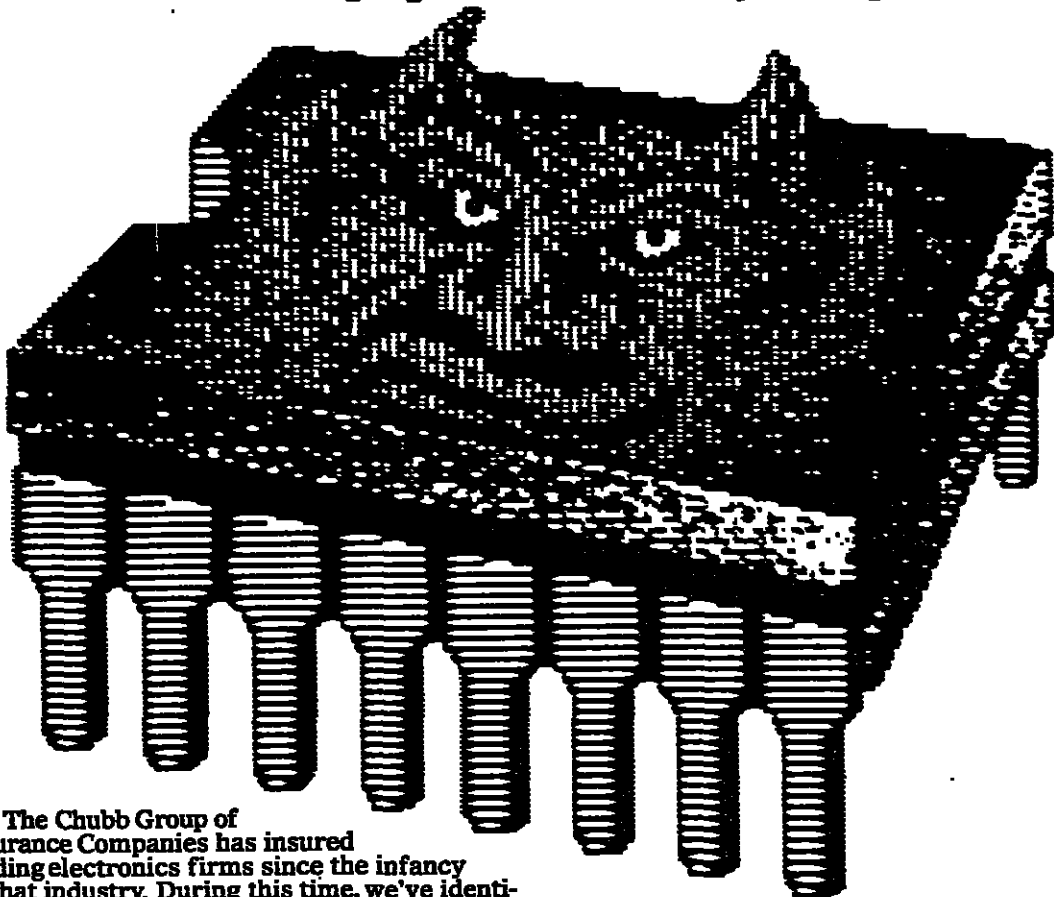
The longer-term health of the European semiconductor industry will depend in part on the success of a number of government-backed programmes under way in Europe, designed to promote research and development across the whole high-tech industry.

In July, ministers from 18 European countries approved a total of 62 joint development projects between European companies, worth about 1.4bn, under the Eureka programme. These are aimed at improving the competitiveness of Europe's high-technology industries by encouraging joint development of common products and services. Eureka has no direct funds, but many participating companies are receiving subsidies from their national governments.

However, the European Commission's Esprit programme, designed to promote European co-operation in information technology research, has run into greater problems, with some governments, particularly those of the UK and West Germany, reluctant to agree to the next tranche of money.

David Thomas

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Semiconductors 3

Japan

Exports fall as demand weakens

JAPAN'S semiconductor industry is in deep trouble. Demand is weak, exports are declining, competition from Korea is increasing, and profitability is now a distant memory.

Sympathy, however, is not required. Japan's major chip makers are divisions of some of the largest companies in Japan. No matter how bad things get, these companies are well-equipped to weather the most severe storms. Further, most of the trouble they are in today has been of their own making.

Like textiles, steel and petrochemicals before them, Japan's chipmakers attacked their industry by investing in huge volume production lines. Regardless of demand forecasts, chipmakers kept on investing, and telling worried US competitors that they were merely keeping up with the new technology of the industry.

This argument was unravelled by the US Trade Representative and the US Department of Commerce, who determined that the excess capacity had only led to unfair dumping of Japanese chips in the US. After months of negotiations and with the aid of the Ministry for International Trade and Industry (MITI), the US won its point. As a result of a chip pact between the two countries, Japan has lifted its prices, and exports to the US are falling.

"If the agreement didn't exist, the US companies would be out of business," says Mr. Carol Ryavec, vice president, Japanese Equity Research, Salomon Brothers Asia. "They are no longer sharing their overcapacity with the rest of the world."

The industry's investment over the past few years, indeed, has been staggering. In 1984, it spent about ¥750bn, boosting its output by about 25 per cent to around ¥8,000bn. But demand in 1988 did not grow at 25 per cent and prices also accordingly. New investment continued in 1988 and 1989.

Plans for 1987 call for a sharp slowdown, with most companies cutting spending programmes in half. Even so, overcapacity within the industry is currently estimated at about 50 per cent, with little prospect of a decline.

Chip makers are reluctant to admit that they have overinvested in their industry. Certainly, their efforts are not conspiratorial. Each one views the other as a frightening competitor. NEC, for example, views Matsushita Electric as having spoiled things by plunging into the market in such a big way in recent years. Matsushita, for its part, views the smaller competitors as the spoilers in the overall capacity picture.

A clue to the Japanese way of thinking is provided by Mr. Hajime Katsura, technical adviser to Matsushita Electric, who says: "Americans asked me why Japanese manufacturers are so easily engaged in plant and equipment investment regardless of a depression or a slump in market conditions."

"I replied with an analogy: You cannot attack the newest F-15 fighters with Phantom fighters from the Vietnam War. That is why whenever new equipment is introduced, Japanese manufacturers know they may have to replace it soon and disregard short-term profit somewhat," he said.

Disregarding short-term profit somewhat may be something of a euphemism, however. Japan's major chipmakers, NEC, Toshiba, Hitachi, Matsushita Electric and Fujitsu, are all diversified companies which do not separate out their semiconductor sales or profits in their annual reports. Nonetheless, analysts in Tokyo unanimously believe that none of these companies has been making much, if any, money in semiconductors since 1984.

All the major electronics companies showed large drops in profits, some as large as 90 per cent, in the recent round of profits announcements. Most of this distress was caused by what is called En-daka in Japan, or the high yen.

The major electronics companies are also the major exporters. Exporters have been sacrificing margins, rather than volume, by keeping their price increases below the yen's appreciation against foreign currencies. This tactic is now showing through at the bottom line.

Also, it is not entirely working. Latest export statistics show volume declines in consumer electronics exports. Lower sales of electronic gadgets, the market in which Japan leads the world, means lower sales of semiconductors. Inventory to shipment ratios, which were down to 1.5 earlier this year, are now heading back up to 2 for linear ICs, a prime component for consumer electronics.

At the same time, South Korea is coming up fast behind Japan. US Commerce Department figures show that US imports of 256K Drums from Korea went from zero in January of this year to \$553,000 in August. And this was the output from Samsung Electronics primarily. Behind Sam-

sung is Goldstar and Hyundai, both committed to achieving success in the world market.

Nonetheless, none of this will put Japan out of business. Hitachi, for example, is sitting on total assets of \$16bn, half of which is cash. Matsushita's cash mountain is more than \$12bn—most of it is on deposit at the bank. The other majors have strong balance sheets as well.

The smaller makers, such as Oki Electric and Sharp, may find themselves even smaller players in semiconductors in future years, but no doubt they will work out their own method of survival through specialisation, tie-ups or production joint ventures.

Indeed, both Fujitsu and Toshiba have already plumped for joint ventures or mergers with foreign companies to reduce the current pressure on profits. Fujitsu is buying 80 per cent of Fairchild of the US, while Toshiba and Motorola recently announced plans to build memory chips and microprocessors in Japan. Further, almost all the majors are increasing their offshore production.

A reflection of the long-term strength of the industry has recently shown up in the Tokyo stock market, where electronic stocks are now back in good favour. Since July, the electronics sector has risen 16 per cent. In early December, for example, Matsushita Electric hit a new annual high of ¥1,550; Nec had hit its annual high in October.

The next year or two will be tough ones, but there is no doubt that Japan can emerge from the crisis in even better shape.

Carla Rapoport

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Carla Rapoport

Advances by Korea

Assembling printed circuit boards at Samsung Electronics, in South Korea. With the help of low labour costs and government financing, Korea is working to achieve a position of world dominance in semiconductor production, similar to that already achieved in ship building, construction, textiles and steel.

Together, industry and government are investing more than \$1bn in semiconductor production facilities and R and D activities and already Korea has become a major supplier of advanced memory chips.

However, production activity is not so simple. In America, quality control was practised by quality control engineers. In Japan, it was followed by everyone in the factory, he said.

Right or wrong, imports of US chips by Japan have not budged since the agreement, languishing at about 11 per cent of the total market. Miti officials privately confess they fear that US sales in Japan will actually go down in the coming months, because of the slump in consumer electronics caused by the appreciation of the yen.

Further, Japanese companies are upset about the new sales promotion committee, which has been set up as part of the chip pact to promote the sale of foreign chips in Japan. Industry executives say that Miti wants to promote purchase promotion, not sales production. That is, it wants to commit to aid its efforts to persuade more companies to buy overseas chips. Japanese companies thought the new committee would help foreign companies cope with distribution and marketing problems.

In addition, Miti wants Japanese companies to help to contribute to a ¥500m (\$3m) fund to get the foundation of the ground. And even though they will support it, Miti will run it. Industry executives believe that the foreign chip industry association should not run the organisation, not a Japanese government agency.

Another future sticking point between Miti and the domestic industry will be production capacity. Miti has already published guidelines on projected demand and capacity forecasts for the main IC products. This table, the first of its kind, calls for significant cuts in capacity, some of which are now being carried out.

Whether they will continue to work and whether foreign chip makers will ever make a serious dent in the Japanese market — these are questions which Miti and the industry, not Japan Inc, will have to continue thrashing out.

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Japan—US trade pact

Watershed deal to monitor prices

THOSE WHO still believe in Japan Inc, Tokyo's alleged combine of bureaucratic, political, and business interests, have probably not considered the full implications of the Japan-US semiconductor pact.

In terms of Japan's trade with the rest of the world, the pact marks a watershed in trade policy. Some American chipmakers may see the deal as too little, too late. But to the Japanese, the deal is little short of revolutionary.

Previous trade agreements, largely in the form of quotas

or anti-dumping duties, have lacked the open-ended nature of this pact. This agreement aims to monitor prices of all major integrated circuits, for all of Japan's export markets, during the life of the pact. It also carries a commitment from the Japanese side to increase its purchases of US chips — the first such commitment ever made by Japan.

The fact that the deal was signed at all is a tribute to the determination of the Ministry for International Trade and Industry (MITI), the government

ministry perhaps most committed to easing the level of trade tension between Japan and the rest of the world. The semiconductor industry was actively against the pact, claiming that it violated free trade principles, as well as the General Agreement on Tariffs and Trade.

But not only did Miti force the industry into line, but it has vigorously enforced the agreement ever since. When exports exploded in July, as the agreement was about to be signed, Miti clamped down on export contracts in August and September in order to compensate. Some companies' exports dropped away to zero during those months. And this has come at a time when profits were already on the floor.

Recently, US companies began to claim that Japan was circumventing the agreement by dumping chips in third country markets. Late in November, in response to that claim, Miti asked Japanese chip makers to raise the prices of chips they sell to South-east Asia and Europe. According to industry executives, prices went up by between 10 and 50 per cent depending on the commodity.

At the time of the pact's signing, Miti executives admitted to one important reservation about their victory over the domestic chip makers. If a commitment to increase US chipmaker's market share, they privately admitted, was next to impossible to enforce, Japan's chip consumers stretch right across the industrial spectrum. Most of them have always followed the policy of buy within the group first, from Japan second, and from foreigners last.

Chip consumers complain that Americans have not specialised in the consumer electronics area, but are too weighted toward military and aerospace applications for Japan's needs. Further, Japanese companies complain openly about poorer standards at American factories.

Mr Hajime Katsura, technical adviser to Matsushita Electric, the world's largest electronics company, wrote in a recent industry publication: "Americans engineers... always think in terms of black or white and yes

or no. However, production activity is not so simple. In America, quality control was practised by quality control engineers. In Japan, it was followed by everyone in the factory, he said.

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David

THE GROWING ASIC MARKET

Another important trend that

having a significant impact upon the way new electronic products are developed. Equipment makers used to "breadboard" a new system, using hundreds of logic and memory chips. Today, many of the logic chips typically will be replaced by a programmable logic device (PLD) that can be configured, and if necessary reconfigured, in a matter of hours until the prototype equipment

functions properly. PLDs are often also used in first generation production systems.

Once manufacturing volume increases, equipment makers may turn to gate arrays, the most widely used and cheapest form of ASICs, to replace more discrete logic.

Gate arrays are essentially arrays of thousands of logic functions that can be connected in custom patterns for different applications. They are often

A good example of the evolution of an electronic system product through the use of Asics is the personal computer. Early models of personal computers produced by companies such as Apple computer and IBM contained boards packed with hundreds of chips. Today, the main functions of a personal computer are available on sets of as few as five Asics.

The need for such close working relationships has been an important factor in the information of dozens of alliances between semiconductor and electronics companies, particularly in the US. National Semiconductor, a leading US ASIC manufacturer, for example, has formed an alliance with Xerox, the office equipment maker. National sees this and similar partnerships, which it is in the process of negotiating, as a means for US chip makers to combat competition from Japan.

Japanese manufacturers now hold a big share of the gate array market, with Fujitsu leading the world as the largest manufacturer.

World gate array sales are estimated to total \$1.2bn this year. Integrated Circuits Corporation, Gaithersburg, Maryland, is the world's largest gate array search firm, projects an annual growth rate of 37 per cent, bringing the gate array market to a value of \$30bn by 1991.

Gate arrays are made from a "standard cell" ASIC is dominated by US manufacturers and US consumption accounts for 94 per cent of world production. The market is expected, however, that standard cell sales will grow from a present level of about \$500m to more than \$2bn over the next five years.

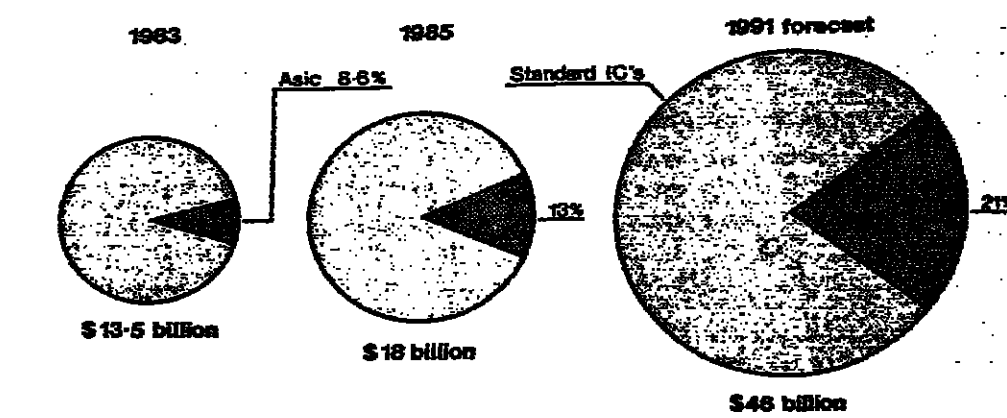
Gate arrays are designed and

A unique feature of PLDs is that they can be configured for particular applications by the user. The latest types use programmable memory technology to enable users quickly to program and, if necessary, reprogram a chip to perform a variety of logic functions.

The most advanced forms of PLDs can be programmed electrically. This opens up the possibility of reconfiguring an electronic system to perform new functions, or, in effect, teaching an old system new tricks.

Although widespread use of reprogrammable chips is probably some years off, it is clear that the emergence of this new variety of Asics, these chips could force fundamental changes in electronic system design.

Louise Kehoe



Source: Integrated Circuit Engineering Corporation



Above: Automated machinery for mounting chips on to circuit boards. Right: Plate image of a single layer of a chip

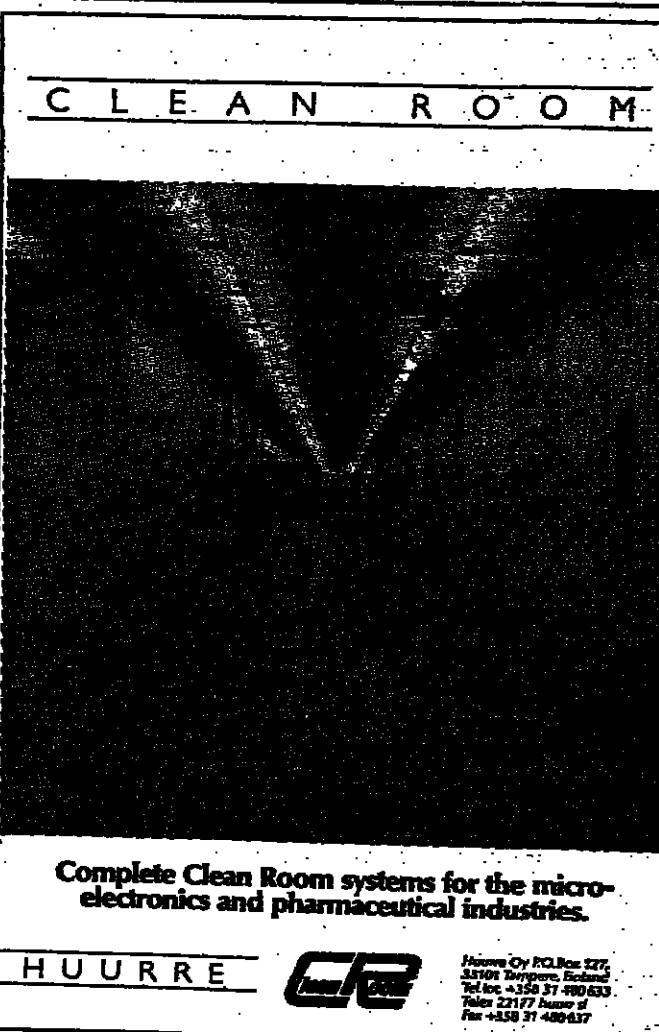
Arrival of the 32-bit chip

Semiconductor, the first company to launch a 32-bit micro, which currently holds about 15 per cent of the market; Motorola, the leader with 50 per cent; and Intel, which entered the market last year, and holds 25 per cent.

According to Compaq, its 32-bit personal computer can run existing programs two to three times faster than high-performance 16-bit personal computers such as IBM's PC AT. Several manufacturers are offering 32-bit add-on boards for personal computers that instantly upgrade the performance of existing machines. In the factory, the 32-bit microprocessor is being used in robots, for example to create machine vision.

Louise Kehoe

Silicon wafers which are cut into more than 100 computer memory chips for use in IBM processors



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Carnegie Hall reopens

Clement Crisp

by the fierce light that came from this astounding presence in the theatre. Ballet in France owes everything to him... The present excellence of the Paris Opéra Ballet under Rudolf Nureyev has its roots in Lifar's dedication to a company which he brought to greatness.

Nimmy March, Tina Marian, Susan Tracy and Penelope Freeman

Michael Coveney

with its hostess, taking
furies, family bondings and
parental disappointments, the
piece takes on the shadow of
a Greek tragedy, but only the
shadow. It remains a tantalising
voyage around many themes,
several acted out with an in-
tensity and conviction missing
from the majority of London
RSC shows this year. Pimm's
timid housekeeper (Ann

Design at K

Europe for years.

I said too that in any polytechnic much depends, for good or ill, upon the attitude of the directorate towards its faculty of art. At Kingston the present attitude is known to me, and in his support, not only for the schools of fashion and design which the NAB specifically exempts from its financial control, but also for the School of Art. Certainly Fine Art at Kingston was affected by the cut of 10 per cent in resources which the NAB required of the unprotected courses and departments, but this was not alone in suffering.

Far from acceding in any knowing run-down in Fine Art, Kingston's present intention is to increase its numbers and, albeit modestly, in the coming year. The figure I gave of an unenviable intake of 18 was indeed

put forward by the NAB but was quickly argued out of court by Kingston itself. The true figures for the Art in 1936 were 38 candidates accepted from the 118 who applied.

Athena Art A

Eight artists have made the short list of the Athena Art Award 1971, the most profitable arts prize in the UK, with £25,000 for the winner. They are John Hoyland, Basil Beattie, Stephen Farthing, Adam Gray, Eileen Lawrence, Alan Miller, Peter de France and George Skellston, who each receive £1,000.

Our art schools are important, now more than ever, not just for hard economic reasons but for the deeper cultural health of our society. Even as they are now, polytechnical and independent alike, beset with difficulties after decades of meanness, they do better by us by far than we deserve. It is time the politicizing and interference stopped and our art schools, were left secure to get on with their proper and honourable work.

William Packer

Athena Art Award short list

Eight artists have made the short list of the Athena Art Award 1987, the most profitable arts prize in the UK, with £25,000 for the winner. They are John Hoyland, Basil Beattie, Stephen Farthing, Adam Gray, Eileen Lawrence, Alan Miller, Lawrence Proeze and Pam Skelton, who each receive £1,000.

This is the second year of the Athena Award and the 2,000 entries showed a marked improvement on year one, with many more leading artists risking their reputations. Over 150 of the entries will go on show at the Barbican from February 10, when the winner will be announced.

Arts Guide

Exhibitions

WEST GERMANY

Tübingen, Kunstheim Philosopher-
sings 76. Thome-Leandre. A retros-
pective of 120 paintings and plastic
sculptures by Henri de Toulouse-Lau-
rec (1864-1901). Ends March 13.

Münster, Westfälisches Landesmu-
seum. Photographs and sketches.
To mark the 100th anniversary of
his birthday, the museum, helped by
the Machs archive and sponsored
by the city of Münster, has mounted
an exhibition of 120 photographs, 120
paintings, 20 watercolours and
documents. Machs, born in Mos-
cow, was a photographer, painter, and
Dissident and Berlin under Maria
Corinth. He was responsible for a
new art form between the First World
War. In the spring of 1914, he went
with Paul Klee and Louis Moilliet to
Spain. He was killed in the battle of
the front in France, and died in
action in Champagne, Ends Feb 2.

WUUSSEL
Ingres and Delacroix - Drawings and
Watercolours - Peintures des Beaux
Arts. Ends Dec 31.

ITALY

Venice: Palazzo Ducale: China in Venice: Chinese Civilisation from the Han Dynasty to - Marco Polo (25-1278 AD): 180 objects, including silks, brocades, jewellery, terracotta figures, glass and porcelain lent by the Peking Museum. Many result from recent excavation, and most have never been out of China. The exhibition covers the main period of Chinese art, and the objects found

Music/Monday. Opera and Ballet/Tuesday. Theatre/Wednesday. Exhibitions/Thursday. A selective guide to all the Arts appears each Friday.

In tombs, buried with the owner for his use in the hereafter, shed a fascinating light on life in the period. Ends March 1987.

PARIS

Mallouf's small bronzes rejoice the eye, as do Lobo's harmonious feminine shapes and the large composition by Laurens with Coblet's otonoz. Daniel Malingue gallery, Ave Matisson 4286 8033. Ends 1

New: After important exhibitions in Germany, Switzerland and Scandinavia, Paris in turn honours the abstract French artist born in 1904. The retrospective consists of 118 paintings, 60 watercolors, nearly as many drawings, some of which are signed "Gaston". It is a sign of artistic development, influenced at first by Cubism and fascinated by Cezanne, he continues obstinately on his own solitary road until he achieves an equilibrium between a vigorous composition and an explicit color.

Claudio Gatti, Closed Tour, Ends Jan. 12 (4258 0974).

Francois Boucher: the 66 paintings and 23 drawings of his first major retrospective - re-creates the pastel-colored world he peopled with voluptuous goddesses and shepherdesses. Premieres: Palais de la Ville, Paris, March 1974.

Gold and Power - Spain in the New World: To mark the 500th anniversary of the discovery of the Americas, this huge exhibition of travels from the Museum of American Art in Madrid tells the story of Spanish conquest. The collection seen for the first time outside Spain includes ornaments and utensils of indigenous Americans, beautiful Mexican mother of pearl pictures of the blood-and-thunder of conquest, records of Jesuit missions in Paraguay and stunning gold masks and jewellery from a land so theologized as El Dorado. Viennez the first stop for this exciting exhibit with a travel to Colombia and Bogotá. Kunsthaus Zürich, Jan. 23.

de Pompadour. Boucher personified the lighthearted charm and seduction of the Louis XVth Period. His pastoral and mythological scenes reproduced by engravings, tapestries and on Sevres porcelain spread the influence of French court art all over Europe. Grand Palais, closed Tue, Ends Jan 5th (4289 5410).

Maitre des horloges et de Modernes:

NEW YORK

Metropolitan Museum: 80 paintings from the end of Van Gogh's life as the focus of this second of a two-part show of the prolific artist; at Sal

Libby's admirable architecture flows once again, holding orchestra and audience in a single room. There are new, very comfortable seats, and a new mahogany floor. The plasterwork is being replaced. The walls have been repainted in good taste" cream shades, with gilded details. (In Victorian times, it seems, it had warm rose glow.) A sampe of the recently begun work with a good concert that lasted for more than four hours.

First, the National Anthem, led by a vocal octet that included Leontyne Price, Roberta Peters, Wanda Tuschant Horowitz, Mayor Koch (hand on heart), St. Ignace and the St. Ignace Choir. Well, the largest contributor to the cost, reported as \$500, of the restoration. Then there was an unannounced sur-

Horowitz appeared and, with quirky, delicate art, played Chopin's C-sharp minor Waltz and Faustaise - Impromptu. Leonard Bernstein conducted an Opening Prayer, for orchestra and baritone (Kurt Ollmann), in Hebrew words, that he had composed for the occasion. Then the New York Philharmonic, conducted by Zubin Mehta, played a programme of German music, broken by a group of songs from Frank Sinatra.

Yo-Yo Ma played the finale of Haydn's C-major Cello Concerto. Marilyn Horne, with Isaac Stern as violin obligato, sang "Erbarme dich." The Beethoven's prelude closed his first segment. Frank Sinatra, grossly over-amplified, was the second. The third consisted of the finale of Mahler's Second Symphony, followed by blowing champagne.

All this has been righted. The foyer has been reconstructed. There are now six box-office windows. One enters at street level, and then easy staircases lead into the hall. The junk over the orchestra platform has been cleared away, and W. B.

acoustics of the reconstructed hall, or even about its appearance: television was there, and video was being made. The banks of lights, filled with fan-cooled lanterns, produced a mechanical roar that filled Fabler's silences, drowned

Messiah/St John's

Max Loppert

The choir and orchestra with the corporate name of The Sixteen are this week giving at Smith Square four performances of *Messiah*. (A numerical puzzle: why Sixteen? The choir was last night 18-strong, and so was the orchestra.)

The first showing was impressive — carefully prepared, balanced, and focused, a properly period-style oratorio reading of vocal timbre and instrumental accompaniment, but without the self-consciously polished finish that has sometimes characterised the post-Crystal Palace view of this deathless masterpiece. At the same time, it was possible to detect on Tuesday a slight sense of inhibition — caused perhaps by the presence of recording-company microphones (the concert was being put on tape for future issue). The solo singers seemed

quired to trip very daintily to their positions; pauses between numbers were mostly such that bit too much prolonged.

In the remaining three numbers the conductor Harry Christensen, who although a layman is performers to respond ever more freely to the work's graphic vividness of dramatic action. Without such inspiration the world in (Winton Dean's words) "assuredly not have ridden so unconvincingly down the centuries."

And this time his unassuming it seemed buoyant thrill (it is a sad soul who has lost the power of being touched to the core by the instrumental music of the "Garden of Earthly Delights" ("Comfort ye"). And though the gentle temper of the direction tended to limit many of the big strokes of dramatic action, the simplicity of Handel's simple gestures was

ECO/Elizabeth Hall

Dominic Gill

Tuesday's English Chamber Orchestra concert was something of a gala affair: a part of the "Portugal 600" festival co-ordinated by the Anglo-Portuguese Foundation, sponsored by Wiggins Teape and Eagle Star, and attended by the Prince of Wales and the Portuguese Ambassador. The quality of the music-making was unfortunately more prosaic. The name of the Finnish conductor: Jukka-Pekka Saraste.

who directed the evening, is sometimes confused with the name of his gifted younger compatriot, Sasa-Pekka Salonen; but there the similarities end.

Mr Saraste directed the ECO Ensemble of the most stubbornly prosaic performance of Mozart or a Beethoven symphony that I have heard them give in many a year. The Haffner sounded like an over-the-hill play with the ragged edges a slightly less interesting performance, if anything, than the ECO are capable of giving without a conductor at all. Beethoven's Fourth was a disaster, especially as it was crude and uninflected.

the great adagio was a travesty; the more the commentary at several removes from the music, a superficial catalogue raisonné. The Portuguese element of the evening was provided, by virtue of her nationality, by Miss Pires, who played the solo part in Chopin's F minor piano concerto. I much admired Miss Pires's solo recital earlier this year; but last night she rarely approached that form. The music was both nervous and uneven; the finger technique frequently uncertain. I am sure that the performance was uncharacteristic and in other circumstances might have had quite another, more eloquent, bloom.

Saleroom/Annalena McAfee

Silver tops £1m

An elaborate George II pergame (table centrepiece) was bought for £770,000 yesterday at Christie's sale of English and Continental silver. The pergame, by Paul de Lamerie, was bought on commission by a London dealer. Another pergame, this one made in Dublin in 1789 by Thomas Jones, was bought for £119,900 by the London dealer Armitage.

The same dealer paid £25,300 for a German silver-gilt mounted ruby glass pilgrim bottle, circa 1890. The bottle, Tobias Baas of Augsburg, had been expected to fetch up to £8,000.

A fine George II coffee pot, chased with spiral flutes, scrolls and foliage, went for £32.100 to an anonymous buyer. The London dealer Armitage also led the bidding for a dozen George II saddle and shell pattern forks and spoons, which went for £14,300. An anonymous buyer paid £16,500 for a George II inkstand. The set had been expected to fetch up to £8,000. The auction made a total of £1,174,933 with only seven per cent left unsold.

A rural Victorian painting, 'The Gossips', by William Sawyer Snr, handsomely

exceeded its estimate of \$10,000 and \$15,000 when sold for \$14,500 at Sotheby's yesterday. The buyer was the London dealer Williams and Son. The sale of Victorian Paintings made a total of \$727,870 with 12.5 per cent. in commission and produced some good prices.

"An October Day on a Midlands River" by Benjamin Williams Leader R.A. was bought for \$23,100 by an anonymous bidder. The picture was expected to fetch between \$8,000 and \$12,000. Arthur Stocks' "Guy Fawkes Day," dated 1887 and depicting children with a traditional guy, made \$18,700. The same price was paid for John Graham's "Moonlight After Rain."

More than half the lots were left unsold in Christie's morning sale of Decorative Arts from 1880 to present day. Bidders were believed to have been reserving their interest for the Bugatti furniture and the glass in the afternoon sale.

The top lot in the morning auction, which made a total of \$134,404, was a boat-shaped turner designed by Henning Koppel. An anonymous buyer paid \$22,000 for the turner.

FINANCIAL TIMES

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Thursday December 18 1986

A plan for the planners

ONE OF the most difficult problems for Western democracies is to reconcile the national need for big long-term investment projects with the objections of those who have to live near them. As technology marches forward, the dilemma becomes more acute — motorways get longer and wider, industrial plant becomes more complex and often more obnoxious, while voters become more assertive about the need for a decent unpolluted environment.

It is not surprising therefore that Britain's public planning procedures have been buckling under severe strain and in some cases — recently, have seemed near to breaking down altogether, particularly when dealing with that most emotive of all planning issues, the siting of nuclear installations.

The Government has clearly become alarmed by the possibility that the four years needed for the planning inquiry into the proposed nuclear reactor at Sizewell in Suffolk could prove to have established a norm rather than just a record. The Government's response yesterday to the Environment Committee's recent report on planning appeals showed the anxiety, but perhaps unsurprisingly offered no sweeping solutions.

Pragmatic approach

It proposes, instead, to try to tighten procedures and speed enquiries by a large number of useful but relatively minor reforms. The Government is right to be worried that if public debate on controversial planning issues is seen to be guillotined, outraged protestors will simply take to direct action, as they have at Greenham Common and some nuclear power station sites in West Germany.

For this reason it believes that local objectors should not be prevented entirely from discussing major issues of policy like the safety and economic advantages of nuclear power, along with more particular arguments about the siting.

On the other hand it suggests that the terms of reference for major planning inquiries should be more tightly drawn, so that inspectors will work within the framework of existing policy, and be encouraged to shut up objectors when they are wasting

time or could more easily submit their case in writing. It also suggests a stricter timetable.

This pragmatic approach is all to the good, although some of the detail descends to the level of Whitehall farce — such as the plan to ask 25 inspectors to spend a year trying to find out whether world processors can save time. That is an excellent example of one of those general questions which have been settled elsewhere and should not take up the time of planning inspectors.

Not necessary

On the bigger question of how to balance the need for broad strategic discussion and legitimate local interest, ministers will continue to consider it. But this issue will become more urgent if the Government decides to go ahead with the further four or five identical power stations it would require to reap the full economic benefit of a revived nuclear power programme.

The nation cannot afford to spend four years and £20m every time it wants to build a new nuclear power station. Nor should it be necessary, even from the most extreme regard for local democracy. The major issues of safety, economic viability and need have been argued to the point of stupefaction in the 55 tons of evidence put to the Sizewell inquiry. To go over them again would waste not only time but a great deal of money. Sizewell is officially estimated to save the country £50m for every year of its existence.

If the economic benefits are as great as is claimed, a strong case can be made for sharing them more generously with residents who suffer the worry or financial penalty of living near a plant. Britain's utilities like the electricity industry have been unimaginative about tackling the trade-off between public good and private inconvenience, and the planning process is not well geared to providing a remedy. As Electricity de France has found, a little local emolument can go a long way, and it could perhaps help to concentrate minds on the planning issues that really matter.

Lessons from Norway

THE LABOUR Government of Norway is belatedly moving to take supporting measures without which the 12 per cent crash devaluation carried out in May was bound to fail. Even so, Norway is in a race against time to restore its economy to health.

There are some obvious similarities with the situation in Britain, even though the parallel is far from complete. Both countries have been hurt by the collapse of oil prices; both have seen their exchange rates decline; and both are in a consumer boom.

The effect in Norway has been much stronger, especially upon the current external account. The Organisation for Economic Co-operation and Development forecast last summer that a surplus of \$3bn in 1985 would turn into a deficit of the same size this year which would rise to \$4.5bn in 1987.

Reduced revenue from oil and gas has played havoc with the central government budget. This coincided with the consumer boom and with strong demand for the non-oil output of Norwegian industry.

It would be hard to imagine a more inflationary pattern. The inflation rate is likely to be around 7 per cent this year and the Norwegian Bankers' Federation has forecast that it will reach 9.10 per cent in 1987. That is a multiple of the average rate among Norway's main customers and is therefore liable to wipe out very soon the competitive advantage hoped for from the devaluation last May.

Largely abolished

Both political and institutional factors severely circumscribe the scope for economic policy making in Oslo. The Labour Government of Mrs Gro Brundtland is in a minority position: it has to rely upon cross floor help from supporters of the previous, anti-Socialist coalition to get the budget through. Moreover, the balance of power in the Norwegian parliament, the Storting, is held by two members representing the Progress Party which is pledged to oppose tax increases. Their presence adds to the inherent instability of government with a hung parliament.

On the institutional side, Norway has had difficulties in implementing an efficient system of credit control. Traditionally control was quantitative, rather than by the more market-oriented system of con-

trol by manipulating interest rates. The system of quantitative controls was largely abolished last year by Mrs Brundtland's Conservative predecessor, Kåre Willoch, who thereby, incidentally, accelerated the consumer boom.

But an efficient alternative has not yet been established, partly because of a speciality in the Norwegian tax system. For purposes of income tax, strictly defined, all interest charges paid are fully deductible from total personal and corporate income tax. It is an incentive to borrowing that Norway shares with the US, but in Norway's case it is accentuated by the much higher prevailing marginal tax rates.

Though it seeks to slow down the consumer boom by higher taxation of cars, drink and tobacco, the new budget only begins to address this issue of principle. Proposals to deal with it are, however, overshadowed for next year. A white paper is expected in the spring with plans to shift some of the emphasis of the tax system away from the taxation of "net income" — meaning income less interest paid and less other allowable deductions — to imposts that fall upon gross income, such as the social security charges.

Right direction

Given the unstable political equilibrium in the Storting and the difficulties always attendant upon such basic change, a transition will take time. Yet time is of the essence at any rate unless the Organisation of Petroleum Exporting Countries does Norway a good turn by effectively pushing up the price of oil.

As against that hope, Norway faces the likelihood of increased inflationary pressures from a wage round due in the spring. The last round was quite difficult enough; the next one could be worse, not least because increased indirect taxes will encourage union militancy.

That said, the passage of the budget was a step in the right direction. It was honoured by the fact that the Norwegian currency allowed the Norwegian currency to hold steady in spite of a small cut made to central bank lending rates. But the budget represents only one step to follow up the devaluation carried out last May. Unless others follow the kroone is likely to remain exposed as long as oil and gas prices remain substantially below last year's levels. By itself, devaluation rarely settles anything.

THE scrimmage for more generous funding of science in Britain has started afresh with publication of the latest review of public expenditure on research and development.

The contestants have been generally agreed that Britain is failing to spend enough to match its economic aspirations, at least if judged by the efforts of its most potent rivals.

Where they have failed to agree is just where Britain is weak and who is neglecting his duties as patron of the costly and risky activity of R and D. Is it central government, private industry, the City, or Mrs Margaret Thatcher's chief scientific adviser?

The latest statistics strongly suggest that it is not government but private industry — the manufacturing sector — which is parsimonious about funding science in Britain.

Academic scientists — the kind who have won many Nobel prizes for Britain in the past — fervently believe that for quite trivial sums compared with the national R and D budget of \$60bn their own extra needs could be satisfied. Some, such as Sir James Gowans, head of the Medical Research Council, are bewildered because what they see as an intellectually sound and convincing case is getting lost somewhere in the hurly-burly of Treasury efforts to reconcile pleas for special treatment with a policy of cutting costs.

More commercially minded voices believe that a far more profound change must be wrought in the management of science in Britain, if it is to contribute more efficiently to the national well-being, whether measured in terms of greater wealth or a more contented society.

The problem is rooted in the uneasy marriage of those inseparable partners "research" and "development." R and D, widely discussed as if they were Siamese twins. In fact, they are two quite separate phases in the evolution of any innovative product or process — as different as marketing and sales.

They may not even come in that order: the steam engine and penicillin are two examples where the product arrived before the research. In the long innovative chain from discovery to customer, research might be defined as building a bridge between the unknown and the market, and development as crossing that bridge.

Despite common usage of the abbreviation R and D, the Government in the mid-1960s decided to separate the funding of the two activities. Research, as administered and practised by five research councils, is funded mainly by the Science Vote, now some \$200m a year. Its purpose is to fund basic research, so that scientific research in seats of learning; it comes under the aegis of the Department of Education and Science.

Development to tailor research more to the needs of the "customer." Often the customer is a government department, such as defence, which nowadays finds it must spend about 20 per cent of a 29bn programme on supporting R and D.

In the 1960s academic research was funded generously. Research budgets grew exponentially. Even though there were political warnings by the early 1970s that it could not go on for ever, the good times continued for years. Only in the 1980s has it dawned on many scientists that, to quote Mrs

Long life after the senate

Life begins after 60 for the retiring US senator. Look, for example, at the new careers of Paul Laxalt of Nevada, and Russell B. Long of Louisiana, son of Huey Long, the Southern demagogue and former Louisiana state governor.

Next month, when Senator Long officially retires, he joins the board of the New York Stock Exchange, currently troubled by the Ivan Boesky insider trading scandal. Both Long and Laxalt have also been invited to join the international law firm of Finlay, Kumble, each at reputed salaries of around \$1m.

Senator Long, a close friend of President and Nancy Reagan, is still considered an outside candidate for the Presidency in 1988. But his chosen successor in Nevada lost in the mid-term elections. In recent weeks, he has been tipped to take a trouble-shooter role at the embattled White House.

Senator Long, one of the most experienced members of the

current US Senate, was the long-time Democrat chairman of the powerful finance committee. Elected in 1948, Long, 68, recently dropped plans to run for state governor. He will be a useful addition to Finlay, Kumble's government relations department (Washington speaks for lobbying).

By all accounts, Finlay, Kumble signed the two senators after a torrid competition with other law firms, not unlike the frequent fights for star players among British football clubs. Finlay, Kumble, with more than 12 offices in the US and London, finally won after it promised to open a new office in Louisiana state for Senator Long — which gives a new twist to pork-barrel politics.

Independent Bowe

Colette Bowe, aged 40, director of information at the department of trade and industry, has had an eventful year.

In January she found herself unexpectedly under the gaze of the television cameras after the Labour MP, Tam Dalyell, named her in the House of Commons as the "least" of the solicitor general's letters on the Westland affair.

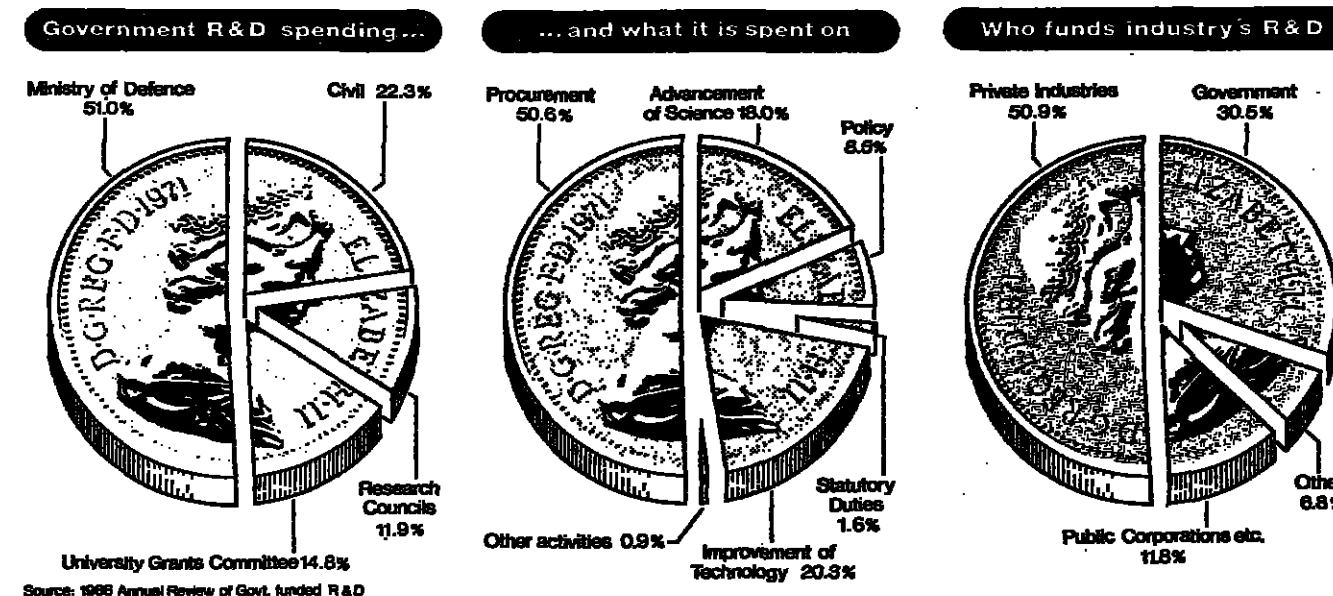
Now Bowe, an economist, is reversing roles by joining the media trade — actually, the television industry. She is to be the next controller of information services at the Independent Broadcasting Authority in succession to Barbara Hosking, a former Downing Street press officer, who retires at the end of this month.

"I am leaving the Civil Service after 11 very happy years to take up this new challenge in a particularly exciting industry," Bowe says. The IBA job was not advertised. I understand she was approached by headhunters.

UK SCIENCE AND INDUSTRY

A dangerously deep divide

By David Fishlock, Science Editor



Shirley Williams, "the party is over." This generous funding had the effect of exacerbating the split between R and D in Britain. Academics, flush with funds, were preoccupied with their own goals such as building internationally competitive research tools — multi-million pound synchrotrons, telescopes, spectrometers, etc — to extend the boundaries of knowledge.

It can be argued that some of the biggest scientific investments Britain has made post-war, for example in high-energy physics, controlled nuclear fusion and astronomy, have contributed little or nothing to the exchequer, and perhaps never will. Mr Kenneth Baker, Secretary for Education and Science, is understood to be musing over whether Britain should abandon "star-gazing."

Even in academia itself, many were sceptical of a post-war investment by the Medical Research Council in the new science of molecular biology. The results, however, were Nobel prizes for the Cambridge discovery of the "double helix" in 1953. Now it is recognised that molecular biology underpins all commercial interest in biotechnology and new ventures such as Celltech, as well as affording the best hopes of tackling major unsolved disease problems, including AIDS.

Celltech, a new biotechnology research company launched in 1980, was founded with City as well as government cash, to exploit the discoveries of this new science. It is held up by Sir James Gowans as an example of how investment in medical science can pay off handsomely. It has grown fast, and has briskly transferred molecular biology from his laboratories to his own in Slough. It has de-

veloped unique products and is currently repaying the Medical Research Council 550,000 year in royalties. In only six years it already accounts for half of the council's income from royalties.

Unfortunately, Celltech is unique nationally. Certainly, it shows what is possible when industry and academia collaborate efficiently. But, Mrs Thatcher would argue Britain

research base in Britain is growing weaker when compared to that of our major industrial competitors. But the vexing question remains: why haven't Britain's more research-conscious companies, small as well as big, been spotting many more potential winners in the 2800 spread of research council science? Intellectual arrogance on the part of the research

urgently needs scores, even hundreds of Celltechs turning research council "R" into commercial "D."

The difficulties experienced by the research councils in extracting more cash from the Government to finance their growing portfolio of ideas has led British scientists to back their lobbying with some original research into their own activities. Earlier this autumn they published two major studies endorsed by the Royal Society, demonstrating that Britain's main trading rivals spend proportionately more, per capita, on government support for science; and that British science is falling behind in its tally of original discoveries and inventions.

Prof. Sir David Phillips, the Oxford biophysicist who acts effectively as chief scientific adviser to Mr Baker, says these two reports together reinforce the contention "that the

10,000 contractors and subcontractors, this year.

Mrs Margaret Thatcher has left her closest scientific aides in Whitehall in no doubt that she is frustrated that her industrial policies have not made British companies more competitive internationally. Their profits have risen substantially during her reign — but not their investment in R and D.

British companies are constantly beaten to the market with new mousetraps, new products and processes invented overseas, increasingly nowadays in Japan.

On the R and D front, her two closest aides are both engineers, not scientists. Her chief scientific adviser, Mr John Fairclough, seconded from IBM earlier this year, says with characteristic Yorkshire bluntness: "I do not believe that the answer is for government to pay for more of the R and D bill for industry."

Mr Fairclough says that, with a few enlightened exceptions, such as ICI at one end of the spectrum and science-based start-ups like Celltech at the other, British companies are far too dependent on government.

He believes they are also discouraged by the City, which takes too short-term a view of manufacturing industry. This is the main lesson he has learned in compiling his first review of national R and D, he says.

Mr Fairclough believes Britain should have a substantial and secure core budget for academic science "and this it has." What needs urgent attention is not the core of science devoted to scholarship, but the way science is tackling the problems of the country, which often cross the boundaries of academic science.

The problem is rooted in the uneasy marriage of those inseparable partners 'research' and 'development'

anathema to Europe's performance car makers. But the commission maintains that high performance cars have been doing very well in markets with low speed limits such as the US.

Faith restored

The City is not usually the venue for great moments in pop music. But the Chaucer Theatre in the Sidgwick Centre is making history of sorts this week. Adam Faith is making his first return to the live stage in 32 years singing, appropriately enough, "What do you want if you don't want money?" for three nights in a row.

Faith is something of a City man now, since launching his own financial company to manage the fortunes of entertainment stars, and he was persuaded to tread the boards again by the Square Mile's Charitable Trust in its Christmas show. As befits a man who now straddles the pop and financial world, Faith was wearing a pin-striped jacket and jeans for the opening night.

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Cruise plot

Ever-conscious of the safety of the EEC's citizens, the European Commission announced yesterday that it would like to put the brakes on some of the community's more aggressive

The commission, which incidentally has its eye on what must be one of the most dangerous roads in Europe, is proposing a new EEC-wide speed limit of 120 km an hour. That is nearly 76 mph and should mean fewer speeding fines for British drivers, still restricted to 70 mph on their own motorways.

But it would also mean that the Germans would have to surrender their long-cherished right to drive as fast as they like on motorways.

The French, who are not allowed to touch 130 kph, and the Italians, who can go up to 140 kph, would also see their cant cuts in their speed limits — that is if member states can be persuaded to give the idea the green light.

The main idea, says the commission, is to reduce pollution, save energy, and reduce crashes. Fatal accidents are expected to be cut by 4 per cent for every one per cent reduction in average speeds.

At this might sound like

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Get this right, he argues, and science itself will be strengthened. "As it is applied more quickly it will also develop at an increasing pace."

Central to this approach is the need to get involved much more deeply with science, at its own expense, and not at the behest of a customer. He sees the advice of Acadia, the Government's Advisory Council for Applied Research and Development, as crucial.

The chairman of Acadia, Sir Francis Tombs, chairman of Rolls-Royce, is also an engineer. Mr Fairclough sits on Acadia, along with chief scientists from Whitehall, main customers for goods and services from industry, such as the MoD, and top industrial research directors.

No single initiative or quick fix is expected to bring a dramatic reversal of industry's parsimony towards R and D. Rather, the two engineers are putting their faith in a number of initiatives, starting early next year.

One would be to compel private companies to disclose some detail of what they spend on R and D and how, as US companies must do already.

Another will focus on procurement policy and the £25bn government spends annually. There is a new technique, invented in the MoD, called "cardinal point procurement," in which government scientists, instead of trying to mastermind the entire project, specify major projects only in terms of their "black boxes" and how they must mate and perform together. Industry is left to do the R and D to get that performance. Mr Fairclough wants to see cardinal point procurement used much more widely throughout Whitehall.

He also wants companies tendering for defence contracts to disclose how they propose to exploit the technology as "spin-off."

He is also investigating tax incentives, and with Treasury is looking at how other countries provide tax relief on R and D.

But above all Mr Fairclough is putting his faith in a recent Acadia study of exploitable areas of British science. This concludes that science has become an impediment to a nation's future that "some attempt must be made to structure support and achieve more effective exploitation of it."

Early next year he expects the government to launch a national forum, on neutral ground, that will bring industry, academia and government together, perhaps under the chairmanship of one of Britain's most respected industrialists. It will also involve a series of seminars and workshops to decide whether Britain should simply abandon some sector of research, such as astronomy.

Acadia has just undertaken two further studies, the results of which will be discussed separately in this new forum. One is of defence R and D, exploring whether Britain gets value for money by spending 20 per cent of defence procurement on R and D. For comparison, ICI spends 14 per cent of its R and D on defence-related research, and gets high profits and exports in return.

The second Acadia study examines the barriers to growth in Britain, and what else might be done to get industry spending more on R and D. But as John Fairclough sees it, "having a better mousetrap is really what it takes."

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SECTION II - COMPANIES AND MARKETS

FINANCIAL TIMES

Thursday December 18 1986

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Thyssen Stahl plunges into first-quarter loss

BY PETER BRUCE IN DUISBURG

THYSSEN STAHL, Europe's biggest private sector steel producer, has plunged into loss in the first quarter of its 1986-87 year and the group says it does not expect to return to profit for the year as a whole.

In what amounts to an ominous warning for the rest of Western Europe's steel industry Thyssen, faced with subsidy and dollar-induced difficulties in export markets and mounting imports pressure at home, said it planned to cut steel production by nearly 10 per cent and was reckoning on the basis of current pricing, with an 8.5 per cent fall in the price of its prime products after a 3.9 per cent fall last year.

Although Thyssen Stahl ended the year to September 30 with net profits of DM 120m (363m), these were sharply down on the DM 383m achieved in 1984-85.

Mr Heinz Kriwet, chairman, had warned a year ago of "negative trends" but said that the scale of the slump had been underestimated.

Thyssen, like most European steel producers, is finding the markets for plate, sections and wire rod

particularly difficult and Mr Kriwet said that he could not rule out an attempt by Thyssen to withdraw from at least some of these products altogether.

Mr Kriwet was more vociferous than usual in his condemnation of the European Commission's efforts to regulate the steel industry.

The Italian state-owned producer, Italcrist, was predicting 1986 losses of DM 1.1bn, he said, which would be met by the Italian Government.

A West German company with losses that big would not survive.

Between 1980 and 1985 the Italian steel industry had been paid subsidies worth an average DM 195 per tonne of steel produced, the French DM 183 and Thyssen just DM 17, he said, some of which had to be paid back to Bonn.

This demonstrated "the absurdity" of European and West German steel policies. He had complained recently of unfair competition in Europe to the Government.

Thyssen Stahl's collapse back into loss has been almost as dramatic as its recovery in 1983-1984 when it made profits of DM 176m after losses totalling DM 416m in theory because of change in accounting

procedures. That recovery signalled a return to profit of a kind for most of the West German steel industry.

Now the atmosphere in the Ruhr steelmaking region is grim however. Thyssen recently decided to close down two blast furnaces in Hattingen. Mannesmann is in the process of losing some 6,000 of its steel workers.

At Hoesch in Dortmund there are plans to shed 4,000 jobs by 1990. Krupp may cut up to 2,000 workshop and administrative jobs.

Thyssen Stahl's consolidated turnover fell roughly DM 1bn to DM 9.55bn last year. Total raw steel output in Germany fell from 11.1m tonnes to 10.8m tonnes. Mr Kriwet said that sales to countries outside the European Community had fallen 12 per cent to some 2.2m tonnes.

One potent measure of the group's difficulties is that it managed to sell only 30,000 tonnes of steel to the US, a 30 per cent fall from just two years ago. At that time the strength of the dollar won Thyssen a lot of business selling continuously cast steel slabs to US steelmakers who would then roll it and sell it to the US motor industry.

Kevin Done looks at the reverse in the fortunes of Refaat El-Sayed, former head of Fermenta

A star wheeler-dealer falls from grace

THE END of Mr Refaat El-Sayed's meteoric career with Fermenta has come with chilling suddenness. All year as he wheeled and dealed, he always seemed to have a new card to play, but as the stakes built up and he was finally forced to show his hand, he had no more aces left.

This week his creditors have moved in and taken over. He has already been removed from his post as chief executive of the biotechnology company that he personally created and for one-and-a-half years turned into the star of the Stockholm stock market with a share price development virtually unparalleled in Europe.

He will be forced off the board and will step down as deputy chairman in less than two weeks time at an extraordinary meeting of shareholders, when the whole existing Fermenta board is due to resign.

His shareholding control of Fermenta has already been wrested from him.

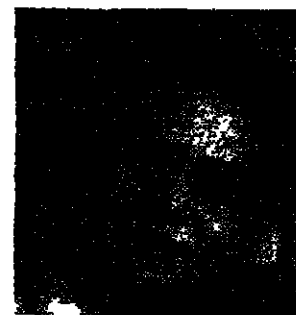
In the whirlpool of his downfall it is still too early to know who else may be dragged down with him, but at the very least it is clear that several big reputations in Swedish business have been badly tarnished, and the turbulent Fermenta saga has suddenly turned very sour.

In the glamour days when Fermenta's potential seemed unlimited and the deals from Mr El-Sayed were coming thick and fast, he gathered around him on the board wealthy and influential names from Swedish business.

It is their reputations too that are now on the line, as well as the record of Fermenta's external auditors, Carlsens and Fritzel, a small local Stockholm firm, and Öhringens, a member firm of Coopers and Lybrand and one of the country's leading firms of accountants.

The cold Stockholm air has been thick with accusations ever since the Fermenta board was forced to announce at the weekend that irregularities discovered by the auditors could virtually wipe out the group's reported profits for the first eight months of SKr 353m (551m).

Two apparently conflicting ver-



Mr Refaat El-Sayed

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sions of events have appeared. In the first the auditors became unhappy about the quality of the company's financial reporting as long ago as the spring and early summer, but despite repeated approaches to the management and then to the board, no corrective action was taken and no such information was given to shareholders.

It is a matter of public record that during this period a number of company insiders sold personal holdings in the company.

This version is vehemently rejected by Mr Bystedt and Mr Skantorp, who said that following the serious criticism from Fermenta's auditors about "dubious business transactions" where Refaat El-Sayed and Fermenta are involved we demand, in the capacity of former members of the Fermenta board, that these business transactions be the subject of a police investigation.

On Monday Mr Bystedt and Mr Skantorp urged that the police be called in. In a joint statement they said that following the serious criticism from Fermenta's auditors about "dubious business transactions" where Refaat El-Sayed and Fermenta are involved we demand, in the capacity of former members of the Fermenta board, that these business transactions be the subject of a police investigation.

Fermenta is now suddenly facing investigation from all quarters. Apart from the public prosecutor, the banking inspectorate is mounting an insider trading investigation, the National Board of Trade is scrutinising the role played by the external auditors.

The stock exchange has called in its own auditors to examine breaches of Fermenta's listing contract, only weeks after Mr Bengt Ryden, the director of the stock exchange, tried to have Fermenta expelled from the bourse but was outvoted on the stock exchange board.

Events this week have moved rapidly as Mr El-Sayed's creditors

have scrambled to call in their loans.

On Monday Industrivärden, the Swedish investment company closely associated with Svenska Handelsbanken, exercised its collateral, when Mr El-Sayed defaulted on a loan of some SKr 570m and became the new dominant owner in Fermenta with a stake of some 43 per cent of the votes.

It has acted quickly to try to halt the crisis of confidence and stop any run on the company by customers, suppliers and creditors. Mr El-Sayed has been replaced as chief executive by 68-year-old Mr Sune Dahlberg, previously head of Fermenta's US agrochemicals operation which is currently under negotiation for sale to Monsanto, the US chemicals concern.

Mr Kjell Brändström, managing director of Industrivärden, is expected to become chairman of Fermenta on December 30, as the main shareholder and leader of the rescue operation. He faces a troubled Christmas as he seeks to pick up the pieces and put together a board that can regain investor confidence.

Mr El-Sayed's other main creditors, Götalbanken and Nordbanken, have also given notice to Mr El-Sayed on their loans amounting to SKr 335m and SKr 200m respectively.

In effect the creditors will soon have taken control over virtually all of Mr El-Sayed's holdings, amounting to some 77 per cent of the votes.

When the clean-up operation is completed, they will hope to have a package attractive enough to tempt one of the big international chemicals groups. Mr El-Sayed flirted with these groups for many months this year without ever being able to recognise that the time had come to surrender control of his own creation.

With blood in the water the sharks will gather soon enough. Caution will be the watch-word until the bewildering series of investigations has begun to shed some light on Fermenta's precise financial status.

But Mr El-Sayed had probably done enough work on restructuring the world's bulk antibiotics market

to ensure that there will not be a shortage of buyers at the right price.

Mr El-Sayed himself can only begin to count the cost of a reckless year. The 40-year-old Egyptian-born entrepreneur, who came to Sweden during the 1960s, started the year with a royal flush in his hand.

He had no debts to speak of, he had unchallenged control of Fermenta, and he was in negotiations with Mr Pehr Gyllenhammar, Volvo's chairman, which seemed set to put him in the driving seat for the restructuring of the whole of the Swedish biotechnology and pharmaceuticals sector.

When the Fermenta share price peaked at around SKr 300 he had become - on paper at least - probably the richest man in Sweden. Swedish television had just voted him "Swede of the year".

But the dream became a nightmare. He was discovered as having lied to investors about his academic credentials. He had faked a doctor's degree from the University of California and a masters from Uppsala in microbiology. From that point the slide began. His credibility and the viability of his main currency, the Fermenta share, began to crumble.

Volvo pulled out before the co-operation deal could be signed, and Mr El-Sayed emerged with debts of more than SKr 1.4bn, the result of buying Fermenta shares expensively from the market for later transfer to Volvo.

In the present chaos the value of his shares has fallen so far that they can scarcely even cover the debts. Whether there will be any capital left at all later for Mr El-Sayed will depend on the creditor's ability to find a buyer.

The El-Sayed saga has mesmerised and latterly horrified the Swedish business establishment.

"It is a sad story," says one banker close to Fermenta. "It is almost like a Greek tragedy - you know that something is going to happen, but the main character cannot change course. He is the engineer of his own fate."

SFG to buy bank stake for \$27m

By Alan Friedman in Rome

SOCIETE FINANCIERE de Geneve (SFG) the Geneva-based investment company controlled by Mr Carlo De Benedetti, said last night that it had agreed to pay \$27m to acquire a 10 per cent shareholding in Compagnie de Banque et d'Investissement (CBI), a Swiss private bank active in portfolio management.

The share acquisition, bought directly from the family which until now owned 100 per cent of the Geneva Bank, is part of Mr De Benedetti's strategy to build up a series of minority holdings in financial companies through SFG.

Mr De Benedetti acquired 27 per cent of SFG in November, and together with other friendly shareholders has effective control.

Among Mr De Benedetti's allies in SFG are Warburg-Sodite, the Indosuez group, Lombard Odier, Zurich Assurance, Banca Commerciale Italiana (Switzerland), the Saudi Arabian Olayan Group and CBI itself, which has 5 per cent of SFG.

CBI has total assets of around SFr 500m (\$294 m), but does not disclose the size of its portfolio funds under management.

Shortly after acquiring his stake in SFG Mr De Benedetti launched a SFr 180m rights issue on the Geneva market for SFG. A further fund-raising issue is planned for early in the new year.

MBB limits forecast to break-even level

BY DAVID MARSH IN BONN

MESSERSCHMITT Bilkow Blohm (MBB), the leading West German aerospace group, expects only to break even this year because of problems above all in its helicopter business and over its role in the European Airbus manufacturing consortium.

Mr Hanns Arndt Vogels, chairman, said 1986 turnover was likely to fall to DM 5.6bn (\$2.8bn) from DM 6bn in 1985. Last year, the company made net profits of DM 180m.

Notwithstanding the West German Government over financing for the Airbus were likely to lead to

Bonn taking over, under certain conditions, DM 2.25bn worth of credits over the business for which it has already issued a guarantee.

MBB's subsidiary, Deutsche Airbus, has a 37.9 per cent stake in the aircraft manufacturing venture.

Of 1986 turnover, civil aeroplanes made up DM 1.6bn with armaments DM 1.4bn, helicopters and military aircraft DM 2bn, space DM 300m and other products DM 170m.

Mr Vogels voiced optimism about growing turnover in 1987 and said that he hoped sales could climb to DM 6.5bn by 1990.

French broker seeks second bourse listing

By George Graham in Paris

A LEADING French stockbroker has set its sights on floating its own shares on the Paris second market.

Tuffier Ravier, a leading firm on the Paris bourse which has already opened its capital to outside investors, wants to obtain a second-market listing as soon as possible.

Mr Thierry Tuffier, the firm's head, said yesterday that he hoped such a listing would be possible soon although the details governing a listing for a stockbroker remain to be decided.

The Paris Stockbrokers' Association is itself seeking ways of boosting the capital of its member firms so that they can compete in today's markets. Its preferred solutions, however, are increased borrowing or the issue of non-voting shares.

French brokers are not forbidden from seeking funding from outside investors, but at present only individual investors are allowed to own voting shares, and financial institutions such as banks are barred from buying in to brokerage firms.

Brokers are now feeling the need to become more heavily capitalised in order to take larger positions in stocks and act as market makers.

Joint ventures set up between banks and brokers act as position takers in this way have not so far been successful, and government officials are keen to develop this activity.

Special write-off leaves Honeywell with \$380m loss

BY JAMES BUCHAN IN NEW YORK

HONEYWELL, the automation and controls company yesterday announced a severe write-off of its equity as a result of giving up control of its faltering computer business to a joint venture headed by Bull of France.

The charge to fourth-quarter net earnings, of \$750m, will wipe out earnings from Honeywell's other businesses and lead to a loss of about \$380m for the year.

The charge, while broadly discounted in the market, indicates

Honeywell's eagerness to get out of computers by placing its mainframe operations into a joint venture with Bull and NEC.

The \$400m attributable to Honeywell Information Systems comprises a write-off of \$250m, which was the discount to the book value in the sale price, as well as provisions for a reduction in the workforce and other pre-sale adjustments. The remaining \$150m relates to the costs of restructuring and cutting jobs in other businesses.

present and future asbestos victims over the next 30 years. Manville would fund it with \$815m from its insurers, \$200m cash, receivables and notes, and 50 to 60 per cent of the company's common stock.

Four years after emerging from bankruptcy, Manville would pay \$75m a year towards a \$1.8bn bond fund and contribute 20 per cent of its profits to the trust.

It would also establish a \$125m trust to pay the company's share of claims for reimbursement of the cost of removing Manville's asbestos products from buildings.

In the first six months of this year Manville reported net earnings of \$37.2m on sales of \$948.1m.

COURT SETS ASIDE OBJECTIONS BY ASBESTOS GROUP'S SHAREHOLDERS

Judge backs Manville plan

BY RODERICK ORAM IN NEW YORK

A US judge has ruled as "fair and equitable" the reorganisation plan under which Manville will emerge from four years' bankruptcy court protection from more than \$100bn of asbestos-related lawsuits.

Common shareholders had voted against the plan because their stake in the company would be diluted by up to 98 per cent under arrangements to meet compensation claims from people who manufactured or used Manville's asbestos products.

The plan was approved, however, by all other parties such as creditors, insurance companies, preferred shareholders and people seeking compensation.

Setting aside the common share-

holders objections, Mr Burton Lifland, a federal bankruptcy judge, ruled on Tuesday that the proposals met statutory obligations. He will issue a formal ruling tomorrow afternoon.

One additional hurdle remains for the Colorado-based building and forest products group which has sold all its asbestos activities. It needs court orders blocking any further punitive damage or asbestos-related suits. Appeals against such orders could delay Manville from emerging from bankruptcy by the target date of July 1, 1987.

The core of Manville's plan is a trust fund which would pay out an estimated \$2.5bn compensation to

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INTL. COMPANIES and FINANCE

Suard to head ITT-CGE link-up

BY PAUL BETTS IN PARIS

MR PIERRE SUARD, chairman of France's nationalised Compagnie Generale d'Electricite (CGE), is expected to take direct charge of the new telecommunications venture between CGE and ITT by becoming the head of the telecommunications group when it is launched next month. However, Mr Suard is also expected to step down as chairman of Alcatel, the French telecommunications concern controlled by CGE, whose operations will be merged with the telecommunications business of ITT in the new joint venture.

CGE appears confident that it will complete on schedule the deal by the end of this month, in time to launch the venture, which will create the world's second largest telecommunications group after American Telephone & Telegraph (AT & T) at the beginning of the New Year.

Although there are continuing doubts whether Telefonica of Spain will join the new

venture by taking a 10 per cent stake in it for about \$300m, CGE seems to feel there is still a chance that Telefonica will join. CGE has made it clear that it favours the Spanish group's participation in the venture but not at any price. ITT's Spanish operations are expected to lose \$60m this year after losing nearly \$20m last year. Despite the Spanish losses, the assets being grouped in the venture are expected to show an overall net income of about \$250m this year on sales of about \$12bn. Sales are expected to grow to around \$12.5bn-\$13.7bn next year and the venture is expected to report net income of a little over 2 per cent of sales or about \$250m-\$260m, like this year.

CGE and its European partners are due to pay ITT \$1.1bn in cash by the end of this year for their share of the deal. The cost of the venture for CGE will total \$600m if the Spanish partner joins the group or

\$800m if it does not. Societe Generale de Belgique, the other European partner, is expected to confirm its participation in the venture. The venture will be at least 51 per cent controlled by CGE, with ITT owning a 35 per cent share in the operation. Although the venture will be a Dutch-registered company, its headquarters are expected to be in Brussels. CGE does not regard at this stage the 24 per cent stake in STC, the UK electronic and computer group, owned by ITT and due to be absorbed by the new venture, as an immediate issue. The new venture controlled by CGE will continue to hold the minority shareholding in STC but the French group has indicated that it does not regard STC as strategic for CGE.

After launching the new telecommunications group, Mr Suard is expected to increase CGE's efforts to consolidate and develop the international position

of Alstom, the heavy engineering group controlled by CGE. This is likely to involve the search for new international alliances and building up Alstom's industrial presence abroad. The French believes the telecommunications venture with ITT has given its Alcatel subsidiary the necessary worldwide scale to compete in a difficult market. It would now like to reinforce Alstom by doing for the heavy engineering subsidiary what it has done for Alcatel. A first step has just been taken with the decision of Alstom to take over the railway equipment business of Jeumont-Schneider, the telecommunications and engineering company controlled by the French Schneider group. The merger, to be completed early next year, will turn Alstom into the world's leading manufacturer of railway equipment.

AECI set to take over Triomf

BY JIM JONES IN JOHANNESBURG

AECI, South Africa's largest diversified chemicals company, is at an advanced stage in negotiations to acquire Triomf Fertiliser, the troubled fertiliser manufacturer. Final agreement is not expected to be reached until after Christmas. However, it is unofficially estimated that AECI will pay about R60m (\$34.5m) when Nedbank, which of Triomf's equity owned by Nedbank, the country's third largest bank. The acquisition of Triomf's

residual domestic fertiliser plants will give AECI about 40 per cent of South Africa's currently depressed fertiliser market. South Africa's drought and export market difficulties pushed Triomf into a series of losses during the past two or three years and the company was saved from failure early this year when Nedbank, which of Triomf's equity owned by Nedbank, the country's third largest bank. The acquisition of Triomf's

of R54.7m in the 11 months to May. Triomf's 400,000 tonnes a year Richards Bay plant, which exports phosphoric acid, was placed in the hands of the liquidators and has been kept in operation at a reduced scale in anticipation of its sale. Hopes have been expressed periodically that the export plant might be sold to foreign investors, but nothing has yet come of it. Sale proceeds will be used to repay part of Nedbank's loans.

Spanish bank wins licence in Gibraltar

By Joe Garcia in Gibraltar
A SPANISH bank has been granted a full banking licence in Gibraltar for the first time. Banco de Bilbao will open its doors here early next year, and another bank, the Banco Central, has also applied for a licence.

Rancho de Bilbao had shown an interest in operating in Gibraltar over a number of years, but the full opening of the bank's offices in February 1985 gave impetus to the matter and led to a formal application.

Mr Brian Traynor, Gibraltar's banking commissioner, said the expanding sector had opened the door to new banks being allowed to operate in the domestic market, although the situation would be closely monitored. Another Spanish bank, two US banks and a European one were also interested in establishing themselves in Gibraltar.

The Majors-based March banking group said yesterday it had completed the purchase of Credit Agricole's share of about 47 per cent in Sinagra, one of Spain's leading store groups, establishing virtually full control, writes David White in Madrid.

March is also making a public bid for the remaining small shareholdings in Sinagra. The total cost of the operation is put at around Pn 7.5bn (\$53m).

Cerus to raise FFR 2bn in year

BY OUR PARIS STAFF

CERUS, the French holding company of Mr Carlo De Benedetti, the Italian financier and entrepreneur, is expected to raise about FFR 2bn (\$302.6m) in fresh equity next year. This would represent a doubling of the capital of the holding company set up by Mr De Benedetti earlier this year in France. The new equity issue responds to growing demand for Cerus securities in France as well as Mr De Benedetti's efforts

to strengthen Cerus financially in view of other possible acquisitions in France. Through Cerus, Mr De Benedetti gained management control of Valeo, the leading French car components group and a 25 per cent stake in Yves Saint Laurent, the well-known fashion house. Cerus is now expected to increase its stake in Yves Saint Laurent to 37 per cent as part of its efforts to support financially the develop-

ment of the fashion house which with the help of Mr De Benedetti, has just acquired Charles of the Ritz for \$300m. However, Cerus' stake in Yves Saint Laurent is expected to decline eventually to under 33 per cent. As part of the financing of the Charles of the Ritz acquisition, Yves Saint Laurent International, the new owner of the US perfume and cosmetics group, is launching a \$75m equity raise with warrants issue.

First-half fall in earnings and sales at C Itoh

BY YOKO SHIBATA IN TOKYO

C. ITOH has become the largest general trading house in Japan on a consolidated basis, despite a drop in the half-year sales in the half-year to September which as ¥7,114.1bn (\$45.4bn) were down 11.5 per cent.

Net profits were ¥8,460m, a drop of 17.6 per cent which was blamed on a ¥1bn fall in returns on investment in overseas affiliates.

Export fell substantially, due also to the falling price of crude oil and other primary products, which wiped out a 12 per cent gain in domestic sales. Gross

trading profits also dropped by ¥15.8bn because of decreased oil trading by the C. Itoh parent company.

The company cut marketing and management costs by ¥13.3bn, and this enabled it to confine the fall in income before equity accounting. Lower financial costs were also made possible through reduced interest rates.

For the full year, the group projected net profits at ¥18bn, down 12.4 per cent, on a 10.7 per cent sales drop to ¥14,200bn.

Profits dip at Otis of South Africa

By Our Johannesburg Correspondent

OTIS ELEVATOR, the 51 per cent-owned South African subsidiary of United Technologies, showed a dip in profits in the year to November despite a small increase in turnover.

Sales rose to R80.2m (\$26.9m) from R59.7m, and pre-tax profits fell to R14.2m from R15.7m.

The company's new business has been affected by the building industry's recession, but turnover is underpinned by long-term service contracts. A dividend of 42 cents a share has been declared from earnings of 42.3 cents. In the previous year earnings were 47.4 cents and the total dividend was 44 cents.

Sanlam, South Africa's second largest insurance company, owns 20 per cent of Otis's equity.

NEW ISSUE

This announcement appears as a matter of record only.

18th December, 1986

Canon Canon Inc.

U.S. \$120,000,000

7 7/8 per cent. Notes 1991

Issue Price 101 1/2 per cent.

Yamaichi International (Europe) Limited

Fuji International Finance Limited

Algemene Bank Nederland N.V.

Banque Bruxelles Lambert S.A.

Banque Paribas Capital Markets Limited

Commerzbank Aktiengesellschaft

Deutsche Bank Capital Markets Limited

Merrill Lynch Capital Markets

Nomura International Limited

Societe Generale

Goldman Sachs International Corp.

Bank of Tokyo International Limited

Banque Nationale de Paris

Baring Brothers & Co., Limited

Credit Commercial de France

Hill Samuel & Co. Limited

Morgan Stanley International

J. Henry Schroder Wagg & Co. Limited

Swiss Bank Corporation International Limited

Union Bank of Switzerland (Securities) Limited

U.S. \$75,000,000

EAB FINANCE N.V.

(Incorporated with limited liability in the Netherlands Antilles)

Guaranteed Floating Rate Notes Due 1993

Guaranteed on a subordinated basis as to payment of principal and interest by

European American Bancorp

(Incorporated with limited liability in New York, U.S.A.)

Notice is hereby given pursuant to the Terms and Conditions of the Notes that for the six months from 17th December 1986 to 17th June 1987 the Notes will carry an interest rate of 6 1/2 per cent. On 17th June 1987 interest of U.S. \$161.15 will be due per U.S. \$5,000 Note for Coupon No. 7

EBC Amro Bank Limited
(Agent Bank)

17th December 1986

A FINANCIAL TIMES SURVEY

The Financial Times proposes to publish a
Conference and Exhibition Survey
on January 13 1987

The following subjects will be covered:

1. Conferences
2. Exhibition
3. International
4. Major UK Facilities
5. Hotels
6. Equipment
7. Conference Travel
8. User Guide

All editorial comment should be addressed to the
Surveys Editor. A full editorial synopsis and
information about advertising can be obtained from

NINA JASINSKI

Telephone: 01-248 8000 extn. 4611

or your usual Financial Times representative.



Taiwan Power Company

(Incorporated with limited liability in Taiwan, Republic of China)

U.S. \$100,000,000

Floating Rate Notes Due 1992

Holders of Floating Rate Notes of the above issue are hereby notified that for the next interest period from December 18, 1986 to June 18, 1987 the following information is relevant:

1. Applicable interest rate: 6 1/2 per cent annum
2. Interest payable on next interest payment date:
per U.S. \$10,000,000 nominal or
per U.S. \$250,000,000 nominal
3. Next interest payment date: June 18, 1987

December 18, 1986

BA Asia Limited
Reference Agent



U.S. \$150,000,000

MARINE MIDLAND BANKS, INC.

Floating Rate Subordinated Notes Due 2009

Interest Rate 6 1/2 per cent annum

Interest Period 18th December 1986 to 18th March 1987

Interest Amount due 18th March 1987

per U.S. \$10,000 Note U.S. \$164.09

per U.S. \$50,000 Note U.S. \$820.31

Credit Suisse First Boston Limited
Agent Bank



Hanson Trust plc

£1,000,000,000

Medium Term Credit Facility

Arranged by
Chemical Bank International Limited

Provided By
Banque Paribas
London

Chemical Bank

Crédit Lyonnais
London Branch

Credit Suisse

Midland Bank plc

Samuel Montagu & Co Limited

The Sumitomo Bank, Limited

Toronto Dominion Bank

Union Bank of Switzerland

Agent
Chemical Bank
February 1986

CHEMICAL INVESTMENT BANK BANKING

This announcement appears as a matter of record only.

PNM Public Service Company of New Mexico

\$325,960,000
Term Lease Obligation Notes

Issued by First PV Funding Corporation for the purpose of financing the sale and leaseback of a portion of PNM's interest in
Palo Verde Nuclear Generating Station—Unit 2
and certain Common Facilities

Participants and Co-Agents

Chemical Bank

Mellon Bank

Bank of America NT & SA

The Chase Manhattan Bank, N.A.

August 1986

CHEMICAL INVESTMENT BANK BANKING

This announcement appears as a matter of record only.

Chrysler Financial Corporation

\$200,000,000
8-year Interest Rate Exchange Agreement

Arranged by
Chemical Bank Investment Banking
October 1986

CHEMICAL INVESTMENT BANK BANKING

Columbia Center

Seattle, Washington
A 76-story, 1.4 million square foot office tower
A Martin Selig Development

\$240,000,000

Interim Financing and Interest Rate Management Facility

Provided by
Chemical Bank

The Mitsubishi Bank, Limited
Los Angeles Agency

The Mitsubishi Trust and Banking Corporation
Los Angeles Agency

Canada Trust

Bank of Tokyo
Seattle Branch

Berliner Handels-und Frankfurter Bank
New York Branch

The Taiyo Kobe Bank, Limited
Seattle Branch

The Mitsui Trust & Banking Company, Limited
New York Branch

Agent
Chemical Bank

Arranged by
Chemical Realty Corporation
August 1986

CHEMICAL INVESTMENT BANK BANKING

This announcement appears as a matter of record only.



The New England Education Loan Marketing Corporation

\$100,000,000
Taxable Commercial Paper Program

Supported by an irrevocable Direct-Pay Letter of Credit of
The Fuji Bank, Limited
New York Branch

The undersigned acts as exclusive
Commercial Paper Dealer for this program.
Chemical Bank Investment Banking
October 1986

CHEMICAL INVESTMENT BANK BANKING

This announcement appears as a matter of record only.

National Distillers and Chemical Corporation

\$875,000,000
Revolving Credit Facility

Provided by
Chemical Bank

Citibank, N.A.

Canadian Imperial Bank Group

First Interstate Bank, Ltd.

The First National Bank of Boston

NCNB National Bank of North Carolina

Pittsburgh National Bank

Wachovia Bank & Trust Company, N.A.

The Fifth Third Bank

The undersigned acted as
co-agent in this transaction.
Chemical Bank Investment Banking
November 1986

CHEMICAL INVESTMENT BANK BANKING

CHEMICAL INVESTMENT BANK BANKING

The bottom line is excellence

December 18 1986
NANCE
link-up

tion of Alstom, the
engineering group
is by CGE.
This is likely to
search for new
alliances and
Alstom's industrial
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The French believe
communications
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market.
It would now like
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has done for Alstom.
A first step has
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The merger, to be
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Spanish bank wins licence in Gibraltar

By Joe Garcia in Gibraltar
A SPANISH bank has
granted a full banking
in Gibraltar for the first
The Banco de Bilbao
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and another bank, the
Central, has also appl
a licence.
Banco de Bilbao has
an interest in opening
Gibraltar over a number
years, but the full ap
the border with Spain
February, 1986 gave
to the matter and let
formal application.
Mr Brian Travers, Ge
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banks being allowed to
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Another Spanish bank
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The Majores bank h
banking group said
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of Credit Agricole's
about 47 per cent in
one of Spain's leadin
groups, establishing
full control, writes
White in Madrid.
March is also making
the bid for the small
shareholdings
Simago. The total cost
operation is put at
Pts 7.5bn (\$33m).

Midland Bank
Incorporated with limited liability
U.S. \$750,000,000
Undated Floating Rate
Capital Notes
For the six months
15th December 1986 to 15th
15th March 1987
via Notes will carry an interest
of 6 1/4% (fixed)
On 15th Jan 1987 will be kept
U.S. \$337.77 million
U.S. \$10,000 Note by Capital
Agent Bank
EBC Asset Bank
Limited

set value

ic Holdings (Seaboard)

ec 1986 U.S. \$128.5

Amsterdam Stock Exchange

son, Heidrich & Pierson NV,
Amsterdam 214, 1016 BS Amsterdam

OND INDICES
1986 GUIDE DECEMBER 18
Change 12 months
on 17 Dec

100	-0.7%	10.32
100	0.07%	11.79
100	1.22%	6.34
100	-0.18%	5.58
100	-0.79%	7.02
100	-4.46%	11.52
100	-0.34%	7.01
100	-0.40%	7.01
100	Total	81284 49.0

150,000,000

INE MIDLAND BANKS, INC.

ating Rate

d Notes Due 2009

6 1/8% per annum

19th December 1986

18th March 1987

U.S. \$164.08

U.S. \$620.31

First Boston Limited

Agent Bank

MPANIES
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BUSINESS LAW

Milk and EEC competition

By A. H. Hermann, Legal Correspondent

MARKET REGULATORS are unpopular. They are costly, inefficient, and often are power-hungry. Their strategies often lead to disaster and they will be blamed even for disasters they have not caused. This explains partly why the European Court's judgment condemning dual pricing of milk by the UK's Milk Marketing Boards (discontinued in 1983) was received with cheers not only in France but also by a good many people in the UK.

Many people who prefer competition to regulation take note only of the short report, saying that the MMBs were condemned for distorting competition. It sounds plausible. However, there was no competition to distort, only distortions to put right. The judgment (case 23/84) is highly technical. It is the interpretation of Article 9, paragraphs 1 and 2 of Regulation 1422/78. This authorises the MMBs to fix different prices for milk according to the use intended by the buyer. The MMBs fixed a lower price for milk to be processed into packet butter than for milk to be processed into bulk butter, destined for production of ice cream, pastry, biscuits — and, of course, for the butter mountain.

The Commission insisted that the use intended by the buyer means butter production or other uses, and that the

marketing boards fell foul of the law when they differentiated between different types of butter. There is nothing in the regulation which would justify this narrow interpretation, though the Court accepted it. In April 1980 the Commission said (ambiguously, according to the Court) that differential pricing was not automatically contrary to Community law — but in 1984 it sought and obtained a declaration that it was.

According to Article 9/2, differentiation of prices must not distort competition between the UK products and products of other EEC countries. The French Government submitted its observations that it was a question of fact whether the UK's dual pricing system operated against imports from other EEC countries. The French Government submitted its observations that it was a question of fact whether the UK's dual pricing system operated against imports from other EEC countries. The French Government submitted its observations that it was a question of fact whether the UK's dual pricing system operated against imports from other EEC countries.

This distortion, led to a reduction of its use as animal feed and increased the risk that it would be used for making milk powder to add to the milk powder mountain. So the UK was castigated both for finding other uses for butter, thus saving it from the butter mountain, and for not saving milk powder from the same fate. Of course, the Commission really wanted UK butter to be dumped on the big heap and that it should be replaced on the UK market by French butter. This could have been achieved only by a further increase in the UK retail price of butter.

It can hardly be said that the aims of the Treaty justified the tortuous interpretation of the law adopted by the Court. The EEC regulation of dairy milk production is clearly contrary to the noble aims of Article 2 of the Treaty. This calls for an increase in stability of economic activities. The whipping up of milk production by uneconomically high prices, leading to unsaleable stocks followed by quotas, is now taking its toll on the farmers. Bankruptcies have followed a few years in the foot's paradise.

The CAP wrecks the EEC budget and its agricultural economy, as well as that of developing countries. It deprives the EEC of outlets for industrial goods and leads to trade wars with the US. The only solution the Commission is able to propose is that member states should finance the destruction of the butter stocks outside the budget.

These are the results of abandoning competition in favour of a crude and shortsighted regulation. Only someone who stands on his head can say that by trying to limit the consequences of this crazy system the UK has distorted competition.

Mr David Newbigging to head Rentokil Group

Mr W. H. Westphal will retire as chairman at the annual meeting of the RENTOKIL GROUP. He will be succeeded as chairman by Mr David Newbigging. A former chairman of Jardine, Matheson & Co, he joined the Rentokil Group on January 1 1986. His current appointments include deputy chairman of Provincial Group and a director of the National Coal Board.

Mr David Anderson has been appointed a director of stockbroker HENRY COOKE LUMSDEN. He is also a director of Henry Cooke Corporate Finance.

Mr Graham French has been appointed sales and marketing director and Mr Graham Pien becomes software director of ROLFE & NOLAN COMPUTER SERVICES.

Mr Michael David Deskins has been appointed a non-executive director of J. HILLAM. He holds 8 per cent of Hillam shares and is a director of a number of other companies.

Mr Jerry O'Mahony, who joined LADBROKE in 1979 as group financial controller, is to succeed Mr Derek Sale as finance director from January 1. Mr O'Mahony, head of corporate finance since October 1985, was appointed an executive director of Ladbroke Group in April 1986. He was recently made non-executive chairman of Seneca and Home & Law Magazines, two publishing subsidiaries. Mr Sale retires at the end of February.

Mr Colin S. Shepherd has succeeded Sir Peter Shepherd as group chairman and managing

director of SHEPHERD BUILDING GROUP.

TANGYE has appointed Mr Tony J. Seal as director and general manager, following acquisition of the company by Turner & Newall. He was general manager of Hydra-Tight, which also belongs to Turner & Newall. Tangye will form part of the Flexitallic Group of Ten.

Mr Michael A. Higgins has been appointed to the board of CHARLES FULTON (IDB), gilt inter-dealer broking subsidiary of International City Holdings.

Mr Roy S. Brooks, Mr Richard L. Lamb and Mr Richard Robinson have been appointed directors of JOHN GOVETT & CO.

Mr Robert Smith has been appointed executive vice president, finance and administration, and chief financial officer, of BPCC (US) Inc. He was executive vice president, finance and chief financial officer, of R. R. Donnelley and Sons. He will also join BPCC's main board.

Mr Anthony Vice has been appointed a non-executive director of THE DRUMMOND GROUP. He is a director of N. M. Rothschild and Sons.

Mr Richard Taylor, managing director UK and European operations, has been appointed to the main board of HADEN GROUP.

Mr Ray Tindle has been appointed to the NEWSPAPER PANEL, from which additional members are appointed to the

Monopolies and Mergers Commission to assist in the investigation of newspaper mergers. He is chairman (and founder) of Tindle Newspapers. He is also chairman of the Surrey Advertiser Group, and is a director of The Guardian Manchester Evening News.

ALLIED DUNBAR has appointed Mr Keith Carby, executive director, sales, to the main board.

ELECTROCOMPONENTS has appointed Dr Keith Bright and Mr Ray Horrocks to the main board as non-executive directors. Dr Bright is chairman and chief executive of London Regional Transport and Mr Horrocks was, until last July, executive main board director at BL (now Rover Group) with responsibility for BL Cars.

Joining the board of GALLAHER TOBACCO are Mr George Henderson and Mr John R. Taylor, who remain managing directors of Gallaher Tobacco (UK), responsible for operations and marketing respectively. Mr Henderson also continues as a director of Gallaher International.

Mr R. M. Dorman has been appointed assistant managing director by HIGH-POINT CTMS (EUROPE); Mr M. C. G. Smith as director technical and assistant managing director designate; and Mr D. M. Williams as director technical.

Mr Eddie Turk has been appointed head of industry affairs at UNITED DOMINIONS TRUST, a member of the TSB Group.

ed Montefibre L70bn issue

By Haig Simonson
MONTFIBRE, the 10th of the Italian firm's subsidiaries, has issued about L70bn (50m) shares and savings warrants in a European offering through Credit Suisse.

The new issue comprises ordinary shares and savings warrants. The savings warrants, which are free warrants, will be issued during the life of the new issue. In all, the new issue is 7.2 per cent of the existing ordinary share capital of its parent.

SERVICE

adequate secondary market.
Closing prices on Dec:

SECTORS	Shares	Price	% Chg
GEN	100	120.00	+1.0
IND	100	110.00	+0.5
FIN	100	105.00	+0.2
TECH	100	115.00	+0.8
ENER	100	108.00	+0.3
UTIL	100	102.00	+0.1
RETAIL	100	100.00	+0.4
TRANSP	100	103.00	+0.2
HEALTH	100	106.00	+0.6
FOOD	100	104.00	+0.3
BEV	100	101.00	+0.1
PHARMA	100	109.00	+0.7
COM	100	107.00	+0.5
TELECOM	100	112.00	+0.9
AVIATION	100	105.00	+0.3
DEFENSE	100	108.00	+0.6
CONSUMER	100	103.00	+0.2
REALESTATE	100	100.00	+0.4
INFRASTRUCTURE	100	106.00	+0.5
WATER	100	102.00	+0.1
WASTE	100	104.00	+0.3
RENEWABLES	100	107.00	+0.6
BIOTECH	100	110.00	+0.8
SPACE	100	113.00	+1.0
ARTS & CULTURE	100	101.00	+0.2
SPORTS	100	103.00	+0.4
ENTERTAINMENT	100	105.00	+0.6
ADVERTISING	100	102.00	+0.3
RESEARCH & DEV	100	108.00	+0.7
MANUFACTURING	100	104.00	+0.5
CONSTRUCTION	100	100.00	+0.4
TRANSPORTATION	100	106.00	+0.6
INFRASTRUCTURE	100	102.00	+0.2
WATER	100	104.00	+0.4
WASTE	100	100.00	+0.3
RENEWABLES	100	106.00	+0.7
BIOTECH	100	109.00	+0.9
SPACE	100	112.00	+1.1
ARTS & CULTURE	100	102.00	+0.3
SPORTS	100	104.00	+0.5
ENTERTAINMENT	100	106.00	+0.7
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MANUFACTURING	100	105.00	+0.6
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SPACE	100	113.00	+1.2

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WATER	100	104.00	+0.4
WASTE	100	100.00	+0.3
RENEWABLES	100	106.00	+0.7
BIOTECH	100	109.00	+0.9
SPACE	100	112.00	+1.1

This advertisement is issued in compliance with the requirements of the Council of the Stock Exchange.

New Court Natural Resources PLC

(Incorporated in England under the Companies Act 1948 to 1987, Registered No. 1101386)

TO BE RENAMED

American Business Systems PLC

INTRODUCTION TO THE UNLISTED SECURITIES MARKET AND PROPOSED RIGHTS ISSUE OF 274,999,999 ORDINARY SHARES OF 5P EACH AT 5P PER SHARE ("NEW ORDINARY SHARES")

SHARE CAPITAL FOLLOWING THE RIGHTS ISSUE

Authorized	Ordinary shares	Issued and fully paid
226.9 million	of 5p each	218.7 million

Application has been made for the grant of permission for the shares and warrants already in issue and the new Ordinary shares to be issued pursuant to the rights issue to be dealt in in the Unlisted Securities Market. It is emphasized that no application has been made for these securities to be admitted to listing. It is expected that dealings in the Ordinary shares, the new Ordinary shares and warrants will commence in the Unlisted Securities Market on 23rd December, 1986.

Resolutions, inter alia, to increase the Ordinary share capital and to authorise the Board to allot new Ordinary shares pursuant to the rights issue, will be proposed at an Extraordinary General Meeting to be held on 22nd December, 1986. Particulars relating to the Company are available in the Extraordinary General Meeting and copies of such particulars are also available, during normal business hours on any weekday (excluding Saturdays and Public Holidays) from 12th December, 1986 up to and including 19th January, 1987, from:

Greenwell Montagu	New Court Natural Resources PLC	Barclays de Zotte Securities
Bow Bell House	40 George Street	Wedd Limited
London EC4M 3EL	London	40 George Street
London EC4M 3EL	W1H 5RE	London EC4A 3TS

and are also available from the Company Announcements Office of The Stock Exchange for collection on 18th and 19th December, 1986.

Wider Share Ownership

It is proposed to publish a special survey on "Wider Share Ownership" on Saturday 17th January 1987.

PEPS, Stockbrokers, Tax Implications, and Technology will be amongst the subjects discussed.

For advertising details please contact:

Michael Bampfylde
Financial Times
Bracken House
10 Cannon Street,
London EC4P 4BY
Tel: 01-248 8000 ext 4008
Telex: 885033

A Financial Times Survey

READING

The Financial Times proposes to publish a Regional Report on the above on

FRIDAY, JANUARY, 9th 1987

For further information, please contact:

ANDREW WOOD
FINANCIAL TIMES
10 CANNON STREET
LONDON EC4P 4BY
or telephone: 01-248 5116

FINANCIAL TIMES
Europe's Business Newspaper

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US\$100,000,000

Floating Rate Notes Due 1997

(Redeemable at the option of Noteholders in 1989 and 1993)

In accordance with the provisions of the Floating Rate Notes, notice is hereby given as follows:

Interest Period : 18th December, 1986 to 18th June, 1987 (182 days)

Rate of Interest : 6 1/4% per annum

Coupon Amount : US\$1,643.06 (per note of US\$50,000)
US\$16,430.56 (per note of US\$500,000)

Agent

LTCB Asia Limited

UK COMPANY NEWS

Mecca plans major expansion

BY TERRY POVEY

MECCA LEISURE, the bingo, dance hall and holiday camp group which came to the market in October, has targeted 24 key sites for growth. It is also looking to expand its specialised entertainment facilities through acquisition, said Mr Garth Guthrie, the company's chairman and chief executive, when announcing yesterday pre-tax profits of £7.55m for the year to September.

What Mecca was looking to offer its customers was "an experience beyond a three-course meal and a cup of coffee," said Mr Guthrie.

"Our emphasis remains the utilisation of large assets with big numbers of customers," he added. While there was a bid in expansion plans for the south-

east, Mecca would keep its northern stronghold and would not yet be tempted by the lure of Spain, he said.

In the year to September, Mecca posted an operating profit of £19.5m (£19.5m) on a turnover of £198.6m (£198.6m). The divisional contributions to operating profits were: entertainment and catering, £4.05m (£4.05m); social clubs, £7.06m (£7.06m); UK holiday centres, £2.15m (£2.15m); and other activities, £2.67m (£2.67m). Interest paid was £6.05m (£6.05m) producing pre-tax profits exactly in line with forecasts of £7.5m made at the time of the flotation which compares with £5.8m in the previous year.

After taxes paid of £2.9m (£2.9m) and pre-acquisition

profits of £830,000, fully diluted earnings per share were 9.1p. There was an extraordinary credit of £909,000 (a debit of £5.35m).

Mecca announced that in the year capital expenditure had been £2m and that in 1986-87 it was expected to be £20m. The current year's trading had started well, it said.

● comment

No surprises in these figures given the estimates made at the time of the flotation. Inevitably this will be a year of consolidation for Mecca's management team—upgrading certain facilities, attempting to find a formula for attracting the under 25s into bingo halls and looking for more ways of exploiting the

second home-based holiday phenomena. Also Mr Guthrie and company have spent rather a lot of time with their professional advisers in the last year—running from the management buy out to the float—and will no doubt be all too pleased to concentrate on the business for a bit. A fall in gearing to below 40 per cent and a positive cash flow of £17m are therefore unlikely to produce a major acquisition—although some falling is to be expected. This year £14m should be possible, of which £3m or more will come from a lower interest charge, which puts the shares at 1584p on a prospective multiple of 13, which still leaves some room for upward movement.

British Land pays £65m for Euston Centre stake

By Nikki Tait

British Land, the property development and investment group, is buying out the 50 per cent stake in the Euston Centre currently held by Peninsula and Steam Navigation in a £65.4m deal. This will take its total spend on property acquisitions to £200m in the past three years.

British Land is placing a total of 56.2m new shares at 170p each, raising about £95.5m to pay for the bulk of the Euston Centre deal and to finance a number of other acquisitions.

P & O acquired its 50 per cent holding when it won its bid for Stock Conversion, the property company, in May.

For its £65.4m, British Land will acquire Euston Centre Investments, which, besides the 50 per cent holding in the Euston Centre itself, takes in Vogue House in London's Hanover Square, two office properties in Dover Street owned by P & O and another in Wigmore Street. Euston Centre plus Vogue House are reckoned to account for about 60 per cent of the purchase price.

Together, ECI's property assets have been independently valued at £84.3m. Net assets, after deducting debt, are at £74.7m.

To finance the acquisition, British Land is paying £11.5m via the issue of 6.7m shares directly to P & O—a 3.3 per cent stake in the enlarged equity—which will be agreed to retain for at least six months.

A further £53.6m will be paid in cash from British Land's existing resources, the remaining £47.6m via the placing for cash of 27.9m shares.

The remaining £47.9m raised from the share placing will finance the £17m acquisition of Lowland, Lambeth House in the City and the third tranche of the Legal & General office property portfolio, costing £31.4m and payable in January.

Existing shareholders are offered a full 100 per cent cash offer over the shares being placed. They can subscribe at the placing price on a basis of two for every five held.

P & O said yesterday that it had come out of the deal with neither profit nor loss. Annual profit attributable to the interests being sold (after financing costs) is estimated at about £5.5m.

Yesterday, British Land also unveiled interim profits for the six months to end-September. Pre-tax, the company made £11.7m against £8.1m a year ago, with net rental income £2m higher at £12.7m and the profit from property sales at £5.1m (£4.4m).

The net interest charge rose from £2.8m to £3.2m, and the interim dividend increased from 1p to 1.25p. See Lex.

Charterhouse boosted by merchant banking profits

BY DAVID LASCELLES, BANKING CORRESPONDENT

THE UK's booming corporate finance and development capital business has helped Charterhouse plc, the merchant banking arm of the Royal Bank of Scotland, to a sharp improvement in profits.

In its first full year since it was acquired by the RBS group, the bank made pre-tax profits of £25.4m, compared to £9.5m in the nine months of 1985. The bank paid £7.7m in dividends to its new parent, and retained profits of £17.7m.

The bulk of Charterhouse's profits came from its merchant banking operations which contributed £15.5m. This includes the bank's fast-growing corporate finance business which was involved in 71 public transactions with a value of £60m.

During the year, Charterhouse was advisers to Argyle in its bid for Distillers, and Woolworth's defence against the hostile takeover attempt by Dixons. The bank also helped The Independent raise £18m; Charterhouse is

now a 5 per cent shareholder in the newspaper, and the Royal Bank has set up a £3m overdraft facility.

Mr Victor Blank, the chief executive, said Charterhouse intended to use its banking muscle more to help clients in situations like buy-outs and acquisitions. He said he had found the Royal Bank responsive as a parent. "We almost always get an answer to a proposal within 36 hours," he said.

A major growth area was development capital, which contributed £1.5m in the nine months of 1985 to £8.8m in the latest year. Charterhouse invested nearly £25m in 33 companies, bringing its total portfolio to over £75m invested in 150 companies. Mr Blank claimed that Charterhouse is now one of the best-known names in the development capital business, with management buy-outs one of its specialties. It is setting up a £100m development capital fund, but of which has been raised in the

US. Mr Blank expects the fund to take on deals between £10m and £25m. "We won't be looking for the major deals," he said, adding that the fund would enable Charterhouse to take on the group's investment management business, which now controls over £20m of funds. After the recent failure of its negotiations to buy unit trusts managed by the Life Association of Scotland, Charterhouse expects to launch six unit trusts of its own next year.

Charterhouse is in the process of integrating the operations of TSB, the Liverpool-based stockbroker firm it bought earlier this year. Mr Blank said the firm would offer Scotland, Charterhouse's ability in the equity market, and complement the debt-raising facilities it was already able to offer. Eventually the firm's staff would also be offered through branches of the Royal Bank.

Bullough pays £14.5m for East Anglian group

Bullough, the Surrey-based engineering and furniture-making group, yesterday unveiled preliminary profits up 28.9 per cent as a record £15.93m, a 34 per cent increase in the final dividend and a near £14.5m acquisition.

Bullough is acquiring the Hubbard-Read Group, one of East Anglia's largest private companies for £5m in cash and 1,805,054 new ordinary shares. Certain of the vendors, who will receive 1,888,170 of the new Bullough shares, have agreed to retain their shares for twelve months and thereafter to sell only through Bullough's stockbrokers. The new shares will rank pari passu with existing Bullough shares but will not rank for the final dividend for the year ended October 31. An extraordinary meeting to approve the acquisition will be held on January 2.

Hubbard-Read's principal activities are: assembly, supply and maintenance of refrigeration and air conditioning equipment, the manufacture of electrical generator sets and alternators and the manufacture and sale of oil and gas fired boilers. Hubbard's adjusted pre-tax profits for the year ended December 31 1985 were £2.18m.

Bullough's record pre-tax profits for the year to October 31 reflected a sharp reduction in interest payable and better performance from most of the group's larger companies. Tax took £5.9m (£5.2m). Earnings per share came out at 27.53p (21.08p). The directors recommended a final dividend of 7.45p (5.5p) a share making a year's total of 10.6p (8.2p).

Rotaprint trims midway losses

BY JANICE WARMAN

Rotaprint, the printing equipment manufacturer, which countered mounting losses with financial and board reorganisation, reduced its interim operating losses from £217,000 to £198,000.

A bid approach is now unlikely, said Mr John Crates, recently appointed chairman. "It's not impossible. But if it was going to happen, it should have happened nine to 12 months ago."

The company hoped to be in profit for the next financial year, he said. "We hope to pay a dividend as soon as we are in profit, even if it is only nominal."

Changes have included reductions in current asset levels, the installation of new computer controlled machinery, the reduction of overheads by vacating one factory, and the extension of Rotaprint's product range.

In July the company's 5p shares were reduced to 3p, representing a total reduction of £1.9m in its share capital. About £1.6m, as well as most of the £750,000 in an existing capital reserve, was transferred to the profit and loss account to eliminate the adverse balance. The financial reorganisation included the £750,000 rights issue and a £1.02m share placing.

The UK and overseas machine sales order book for the last year to September 27 was better than for some years, he said. The benefit of the reorganisation would begin to be reflected in the second half.

Restaprint will pay no tax, and interest payments have fallen from £197,000 to £111,000 because of the group's reduced borrowings after the rights issue and placing of new shares in May.

Turnover fell by 18 per cent to £5.6m after the planned reduction of Rotaprint's manufacturing operation. Loss per half pence share was 0.063p (0.177p).

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Border TV in USM debut

BY ALICE RAWSTHORN

Border Television, the independent television contractor for Cumbria and the Border counties, has joined the Unlisted Securities Market, through an introduction.

Border's shares had been traded under the auspices of the Stock Exchange's Unlisted Securities Market since 1985. But Border was keen to ensure that there was a more liquid market in its shares and specifically to enable people living in the Border television region to buy shares in the company.

Border is the smallest of the mainland ITV contractors and the last to go public. Its flotation follows those of Thames Television, TV-am and Yorkshire Television earlier this year.

The company has operated at a loss in two of its past four financial years, but returned to profit in the year to April 30 when it achieved a pre-tax profit of £704,000 on turnover of £8.86m.

The company recently organised a capital reconstruction in preparation for its USM introduction by simplifying its share structure — and enfranchising non-voting shares — and staged a rights issue to raise £565,000. The proceeds of the rights issue will be used to improve Border's production facilities.

In the introduction, through Henry, Cooke Lamson of Manchester, Border will release its whole issued share capital of 10.12m shares on to the USM.

Mowlem nears bid victory

The bid by John Mowlem, the construction group, for Glasgow Stockholders Trust has been accepted by holders of just more than half of the investment trust's ordinary shares.

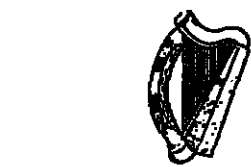
Mowlem yesterday extended its offer until December 30 after receiving acceptances representing 50.6 per cent of ordinary shares and 68.7 per cent of voting rights. GST shares added 2p to 177p yesterday against the 175p estimated value of Mowlem's cash alternative offer, based on GST's formula asset value.

The Department of Trade and Industry said, meanwhile, that the bid would not be referred to the Monopolies and Mergers Commission.

New issue

This announcement appears as a matter of record only.

December 18, 1986



IRELAND

DM 300,000,000

6% Deutsche Mark Bearer Bonds of 1986/1993

Issue Price: 100% - Interest: 6% p.a., payable annually in arrears on December 18 - Redemption: on December 18, 1993 at par
Denomination: DM 1,000 and DM 10,000 - Security: Negative Pledge Clause - Listing: Frankfurt Stock Exchange

COMMERZBANK
AKTIENGESELLSCHAFT

S.G. WARBURG SECURITIES

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AKTIENGESELLSCHAFTDRESNER BANK
AKTIENGESELLSCHAFTWESTDEUTSCHE LANDESBANK
GROZENTRALEBAYERISCHE VEREINSBANK
AKTIENGESELLSCHAFTCITIBANK
AKTIENGESELLSCHAFTDAIWA EUROPE
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KREDITBANK INTERNATIONAL GROUP

ORION ROYAL BANK LIMITED

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Arab Banking Corporation -
Dau & Co. GmbH
Bankhaus H. Aulinger
Baden-Württembergische Bank
Aldinger-Gesellschaft
Badische Kommunal-Landesbank
- Girozentrale -
Banca del Gottardo
Banca di Roma
BankAmerica Capital Markets Group
Banque Générale du Luxembourg S.A.
Banque Internationale à Luxembourg S.A.
Banque Paribas Capital Markets GmbH
Baring Brothers & Co., Limited
Bayerische Hypothek- und Wechselbank
Aldinger-Gesellschaft
Bayerische Landesbank Girozentrale
Bergan Bank A/S
Berliner Bank Aktiengesellschaft
Berliner Handels- und Frankfurter Bank
Bankhaus Gehrder & Beilmann
Breuer Landesbank
Kreditanstalt Oldenburg
- Girozentrale -
Chase Bank AG
Chemical Bank Aktiengesellschaft
Christiana Bank (UK) Limited
CIBC Limited
Commerzbank International S.A.
Commerzbank (South East Asia) Ltd.
Copenhagen Handelsbank A/S
County NatWest Capital Markets Limited

Creditanstalt-Bankverein
Crédit Commercial de France
Crédit du Nord
CSF-Bank
Deutsche Bank
Deutsche Girozentrale
- Deutsche Kommunalbank -
DG Bank
Deutsche Genossenschaftsbank
DKS International Limited
Dominion Securities Inc.
DSL Bank Deutsche Städtische- und
Landesbank
EBC Anro Bank Limited
EuroPartners Securities Corporation
Fuji International Finance Limited
Generale Bank
Goldman Sachs International Corp.
Hessische Landesbank
- Girozentrale -
Georg Hauck & Sohn Bankiers
Kommunikationsgesellschaft auf Aktien
Hessische Landesbank
- Girozentrale -
Hill Samuel & Co. Limited
Industriebank von Japan (Deutschland)
Aldinger-Gesellschaft
Kleider, Feinbier International Limited
Kleinwort Benson Limited
Kreditbank S.A. Luxembourgeoise
Kusatt International Investment Co. s.a.
Landesbank Rheinland-Pfalz
- Girozentrale -
Landesbank Schleswig-Holstein
Girozentrale
Lloyds Merchant Bank Limited
LTCB International Limited
Manufacturers Hanover Limited
Merck, Finck & Co.

Merrill Lynch Capital Markets
E. Metzler & Co. Sohn & Co.
Mitsubishi Finance International Limited
Mitsui Finance International Limited
Samuel Montagu & Co. Limited
Morgan Grenfell & Co. Limited
Morgan Guaranty GmbH
Morgan Stanley International
The Nikko Securities Co.
(Deutschland) GmbH
Nomura Europe GmbH
Norddeutsche Landesbank
Girozentrale
Sal. Oppenheim jr. & Cie.
Painlevé & Co. International
Privatbanken A/S
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Santander International Limited
Schweizerische Bankgesellschaft
(Deutschland) AG
Schweizerische Hypothek- und
Handelsbank
Security Pacific Hoare Govett Limited
Shearson Lehman Brothers International
Smith Barney, Harris Upham & Co.
Incorporated
Société Générale
Strasse Turnbull Limited
Svenska Handelsbanken Group
Swiss Bank Corporation International Limited
Swiss Volksbank
Tinkers & Burkhart KGaA
Veritas und Westbank Aktiengesellschaft
M.M. Warburg-Francis, Wirtz & Co.
Westdeutsche Genossenschaftsbank
Zentralbank AG
Westfälenbank Aktiengesellschaft
Westpac Banking Corporation
Wood Gundy Inc.
Yamaichi International (Deutschland) GmbH

The Molson Companies Limited

(Incorporated with limited liability under the laws of Canada)

U.S. \$20,000,000 Floating Rate Notes

Issue date 18th September 1986

Maturity date 18th September 1991

For the three month interest period from 18th December 1986 to 18th March 1987 the rate of interest on the notes will be 6 1/2% per annum. The interest payable on the relevant interest payment date will be U.S. \$7,812.50 per U.S. \$500,000 note.

Morgan Grenfell & Co. Limited Reference Agent

NBD BANCORP, INC.

US\$100,000,000

Floating Rate Subordinated Notes Due 2005

Notice is hereby given that for the interest period 18th December, 1986 to 18th March, 1987 the interest rate has been fixed at 6 1/2%. Interest payable on 18th March, 1987 will amount to US\$162.50 per US\$100,000 Note.

Note Agent Bank: Morgan Guaranty Trust Company of New York, London

L.G. INDEX

FT for December 1986-1987 (-2)

Tel: 01-828 5896

NOTICE OF EARLY REDEMPTION

To the Holders of

UNITED BISCUITS (UK) LIMITED

(now UK INVESTMENTS plc)

9 per cent. Bonds due 1989

NOTICE IS HEREBY GIVEN that, pursuant to Condition 6(C) of the 9 per cent. Bonds due 1989 (the "Bonds"), UK Investments plc, formerly United Biscuits (UK) Limited, has elected to redeem all of the outstanding Bonds on 31st February, 1987 (the "Redemption Date") at the Redemption Price of 100.5% of the principal amount thereof, together with accrued interest to the Redemption Date in the amount of U.S. \$65.00 for each U.S. \$1,000 principal amount.

Subject to any laws or regulations applicable thereto in the place of payment, payment of the Redemption Price and accrued interest will be made upon presentation and surrender of the Bonds, together with all coupons representing the same, to the paying agent, Messrs. Morgan Guaranty Trust Company of New York in New York and in London, Messrs. Morgan Grenfell & Co. Limited in London, Messrs. Nikko Securities Co. (Deutschland) GmbH in Germany, Messrs. Nomura Europe GmbH in Switzerland and Messrs. Schweizerische Hypothek- und Handelsbank in Switzerland.

The aggregate amount of U.S. \$1,070,000 for each U.S. \$1,000 principal amount of Bonds and interest on the Bonds will be paid to the holders of the Bonds and coupons will be paid to the holders of the Bonds on the Redemption Date.

18th December, 1986 (formerly UNITED BISCUITS (UK) LIMITED)

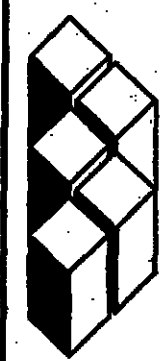
THE REPUBLIC OF TRINIDAD AND TOBAGO

U.S. \$50,000,000 Floating Rate Notes due 1992

Notice is hereby given that the Rate of Interest has been fixed at 7 1/2% p.a. and that the interest payable on the relevant interest Payment Date, June 18, 1987, against Coupon No. 3 will be U.S. \$385.49.

December 18, 1986, London

By: Citibank, N.A. (CSI Dept.), Agent Bank CITIBANK

BAGGERIDGE
BRICK
PLC

Turnover up 11.6%

Turnover increased from £9.5 million to £10.6 million.

Pre-tax profits up 26%

Record pre-tax profits for fourth consecutive year — up from £1.7 million to £2.2 million.

Dividends up 27%

Final dividend 25% making 35% for the year.

Earnings per share up 34%

Earnings per share increased from 27.97p to 37.56p.

4 for 1 scrip issue proposed

Copies of the illustrated report and accounts for the year ended 30th September, 1986 will be available after 20th January, 1987 from the Secretary, Baggeridge Brick PLC, Goggin End, Seelby, Dudley, West Midlands DY3 4AA.

Public Works Loan Board rates

Effective December 17		Non-quoted loans A* repaid at maturity	
Years	By EPR %	By EPR %	By EPR %
Over 1 up to 2	11 1/2	11 1/2	11 1/2
Over 2 up to 3	11 1/2	11 1/2	11 1/2
Over 3 up to 4	11 1/2	11 1/2	11 1/2
Over 4 up to 5	11 1/2	11 1/2	11 1/2
Over 5 up to 6	11 1/2	11 1/2	11 1/2
Over 6 up to 7	11 1/2	11 1/2	11 1/2
Over 7 up to 8	11 1/2	11 1/2	11 1/2
Over 8 up to 9	11 1/2	11 1/2	11 1/2
Over 9 up to 10	11 1/2	11 1/2	11 1/2
Over 10 up to 15	11 1/2	11 1/2	11 1/2
Over 15 up to 25	11 1/2	11 1/2	11 1/2
Over 25	10 1/2	10 1/2	10 1/2

UK COMPANY NEWS

Bryant forecast eclipsed by bid rejection blunder

BY CLAY HARRIS

ROBERT FLEMING was just a little too quick off the mark yesterday, rejecting an "increased offer" for his client, Bryant Holdings, that had not in fact been made.

The merchant bank blamed "secretarial error" for the delivery of the wrong statement to the Stock Exchange, but the own goal overshadowed Bryant's forecast of a 55 per cent increase in pre-tax profit and allowed English China Clays to score a few easy points.

The statement quoted Mr Chris Bryant, chairman of the Midlands-based housebuilder and property developer, as saying: "It comes as no surprise to me that they have increased

their offer. However, it is still derisory."

Schroders, advising EOC in its £137m takeover bid for Bryant, said that the "knock-jerk reaction" cast doubt on their motives and on whether they have shareholders' interests at heart.

Mr Richard Templeton of Fleming said, however, that no blame attached to Bryant. In fact, no statement was supposed to have been made yesterday. The profits forecast itself was not due to be released until Monday.

Bryant is forecasting pre-tax profits in excess of £21m in the year to next May against £15.5m in 1987-88, with a 63 per cent

advance at the after-tax level to more than £14m (£8.2m). It predicted earnings per share of more than 14.5p (10.5p).

Schroders said that Bryant should have provided a profits forecast when it launched a £17.4m rights issue in October. It also attacked Bryant's failure to disclose a valuation of its landbank.

"If and when they think we're going to increase our bid again, perhaps that's another of their announcements to put out," Mr Nicholas Jones of Schroders said last night.

EEC shares lost 3p to 318p, where its three-for-seven offer values Bryant at 138p, against yesterday's close of 155p, up 1p.

Redland and AAH in fuel venture

By Maurice Samuelson

TWO OF Britain's leading distributors of coal have agreed to merge, in the second such shake-up in this sector in less than two months.

Cawoods, a wholly-owned subsidiary of Redland, is to merge with British Fuel Company, owned 51 per cent by AAH Holdings and 49 per cent by British Coal.

The resulting venture, to be known as British Fuels, will be controlled and managed by Redland, with a 55 per cent sharehold. AAH Holdings will have 25 per cent and British Coal 20 per cent.

On receiving clearance in about two months from the EEC Commission and the Office of Fair Trading, it would be one of Britain's biggest independent coal distribution companies, with a turnover of some £700m. The merger announcement follows the recent acquisition of the Yorkshire-based Hargreaves Group by Coalite, which includes the Charrington chain among its subsidiaries.

Mr Robert Napier, Redland's finance director, said last night that Cawoods had "performed well" since it joined the Redland group several years ago. Its sales were geographically complementary with those of BFC.

BTR extends £1.1bn offer for Pilkington

By Martin Dickson

BTR, the industrial holding company, yesterday extended its £1.1bn hostile takeover bid for Pilkington Brothers, the glass manufacturer, after picking up acceptances covering only 0.05 per cent of the shares by the first closing date of its offer.

The offer has been extended until January 24, the 60th day of the bid, which is the date it must finally close under the timetable set down in the City takeover code.

Normally, offers are initially extended for just one or two weeks, but the BTR camp said yesterday it had decided to set a date clear of the Christmas holiday period.

The fact that it has chosen the 60th day does not impede its flexibility, should it decide to increase the offer. Analysts say it will have to substantially increase its terms to stand any chance of success. BTR's shares closed last night at 270p, down 1p, at which price its offer is worth \$280 for each Pilkington share. Pilkington closed at 641p, up 3p.

The Office of Fair Trading has yet to recommend to the Government whether or not the bid should be referred to the Monopolies and Mergers Commission.

CALA's £7m housebuilding purchase

CALA, an Edinburgh-based housebuilding and property development group formerly known as City of Aberdeen Land Association, has agreed to buy Dominion International's housebuilding subsidiary, Dominion Homes, for approximately £7m, subject to approval by CALA shareholders. Consideration will be based on adjusted net assets of Dominion Homes as at October 31.

The acquisition will considerably increase CALA's housebuilding interests in the south of England and will establish CALA in the Midlands area, Mr Geoffrey Ball, CALA's chairman said yesterday.

CALA will finance the deal by a placing of 3.8m new ordinary shares at 77.5p, to raise £2.9m with the balance provided from CALA's existing facilities.

The new shares, to rank pari passu with existing CALA shares, have been conditionally placed by J. Messel and Co. Dominion Homes, operating from Horsham, in Sussex, Solihull, Birmingham, sold 327 homes in the year ended March 31. Its operating profits during that period were £1.18m on turnover of £12m.

MINEY HOLDINGS (insurance broker): Pre-tax profits for nine months to end-September 1988 £24.65m (£24.1m), on turnover of £74.7m (£68.4m). Outlook for year subject to problems of fluctuating currency rates.

Beazer pays £9.7m for Hong Kong company

BY DAVID GOODHART AND DAVID DODWELL

C. H. Beazer, the fast-growing building and construction group, has made its first acquisition in the Far East paying £9.7m for Hong Kong-based civil engineering group Franki.

Franki has been controlled by the Kadoorie family since it was founded 25 years ago but severe competition in the Hong Kong construction market has put it under considerable pressure. In 1985 it reported a loss but recovered in the first half of 1986 to report pre-tax profit of £618,000 on turnover of £27.3m.

The Kadoorie family has

accepted the offer for 71.4 per cent of the share capital but will hold onto a further 9.9 per cent of the shares for at least one year. The family will also retain the right to nominate one director for up to three years providing it retains at least 8 per cent of the share capital.

Beazer has grown from a turnover of £25m in 1980 to an expected £1.2bn for 1987 and has expanded its overseas interests markedly. An ADR issue in the US is mooted and Franki will retain its Hong Kong quote thus making it possible to raise capital there.

Amber drops pref. plan

BY CHARLES BATCHELOR

Amber Day, the clothing manufacturer and importer, was yesterday forced to withdraw a plan to repay arrears on its preference shares after a number of shareholders rejected the terms as inadequate.

Mr Ronald Metzger, Amber chairman, adjourned the extraordinary meeting called to approve the proposals indefinitely and said the board would review the position when the interim results were available next April.

Shareholder resistance was

director of Granville Davies Coleman, part of the Granville group. Acting in a private capacity Mr Cable and a number of his personal investment clients with a combined stake of more than 25 per cent said they would block the plan.

Amber could either improve the terms of the share swap or distribute some of its cash reserves, Mr Cable said. It might also decide to issue some of its 24 per cent shareholding in USM-quoted menswear retailer, John Kent, he added.

Mr Metzger said he had been aware that Mr Cable spoke for a large shareholding but he had not realised quite how big it was. He withdrew the motion, seeking shareholder approval as soon as it became apparent it would be defeated.

COMPANY NEWS IN BRIEF

ULSTER INVESTMENT Bank (merchant bank group subsidiary of Ulster Bank, part of NatWest Bank group): After tax profits for 1988 a record £5m, representing a return on capital of 21 per cent after tax. Assets up 7 per cent to £730m and deposits by 11 per cent to £651m. Funds under management £830m.

R. H. MORLEY GROUP (USM quoted polythene film and bag manufacturers): Turnover £2.24m (£2.24m) for six months to September 30 1988. Pre-tax profit £100,291 (£80,172); tax

charged £35,102 (£28,080) and earnings per share of 1.74p (1.38p). Egm being called to consider name change to British & Overseas Holding or Wentworth International Group.

STERLING PUBLISHING Group (USM-quoted publisher): Pre-tax loss £218,000 (£238,000), on turnover of £1.8m (£994,000), for six months to end-September 1988. Losses per share 1p (1.2p) after tax credit £78,000 (£96,000). No interim dividend.

PKBanken US\$50,000,000 Subordinated Floating Rate Notes Due 1991

For the six months, 19 December 1986 to 19 June 1987, the interest rate has been fixed at 6.50% per annum. Interest payable on 19 June 1987, will be US\$328.61 per note of US\$10,000 denomination.

Christian Bank (UK) Ltd. Agent Bank

THE MINISTRY OF FINANCE OF THE KINGDOM OF THAILAND US\$300,000,000

Floating Rate Notes due 2005 Notice is hereby given that for the interest period 18th December, 1986 to 18th June, 1987 the interest rate has been fixed at 6 1/2%. Interest payable on 18th June, 1987 will amount to US\$322.29 per US\$10,000 Note and US\$8,057.29 per US\$250,000 Note.

Agent Bank: Morgan Guaranty Trust Company of New York London

COMALCO FINANCE LIMITED US\$150,000,000

Guaranteed Floating Rate Notes due 1993 Notice is hereby given that for the interest period 18th December, 1986 to 18th March, 1987 the interest rate has been fixed at 6 1/2%. Interest payable on 18th March, 1987 will amount to US\$159.37 per US\$10,000 Note.

Agent Bank: Morgan Guaranty Trust Company of New York London

Westpac Pollock

A new name in Government Securities

Two financial firms have just become one. Westpac Banking Corporation of Australia has completed its acquisition of Wm. E. Pollock Government Securities and is proud to welcome its employees and customers to Westpac's global organization. Our commitment to the continued success of one of America's leading primary dealers is further confirmed by its new name—Westpac Pollock. But we are not just adding a name. Our commitment means more resources to a talented team to better serve clients.

Westpac Banking Corporation

Westpac Banking Corporation has acquired

Wepco Holding Company, Inc. and its subsidiaries including

Wm. E. Pollock Government Securities, Inc.

We acted as financial advisor to Westpac Banking Corporation during the negotiations leading to the completion of this transaction.

James D. Wolfensohn Incorporated

December, 1986

U.S.\$25,000,000.00

UNITED MIZRAHI INTERNATIONAL INVESTMENTS NV

Guaranteed Floating Rate Notes 1988

For the six months 19 December 1986 to 19 June 1987

The Notes will carry an Interest Rate of 6 1/2% per annum

Coupon Value U.S.\$331.77

Listed on The Stock Exchange, London

This advertisement is issued in compliance with the requirements of the Council of The Stock Exchange. It does not constitute an invitation to the public to subscribe for or purchase any securities of the Company.

DEBRON INVESTMENTS PLC

(Registered in England No. 309779)

Introduction by
Robert Fleming & Co. Limited
of 23,679,407 ordinary shares of 50p each

SHARE CAPITAL			
Authorised	£	Issued and Fully Paid	£
23,679,407 ordinary shares of 50p each	11,839,703	23,679,407 ordinary shares of 50p each	11,839,703
26,602,965 'A' ordinary shares of 10p each	2,660,297	23,666,667 'A' ordinary shares of 10p each	2,366,667
	14,500,000		14,206,370

The Tender Offer made by Debron (USA), Inc., a wholly owned subsidiary of Debron Investments PLC, for all the issued share capital and warrants of Guilford Industries, Inc., closed at 12 midnight New York City time on Tuesday 16th December, 1986. Debron (USA), Inc. has received acceptances in respect of the majority of the issued share capital and warrants of Guilford Industries, Inc. and will acquire the remainder.

Application has been made to the Council of The Stock Exchange for the ordinary shares of 50p each of Debron Investments PLC to be admitted to the Official List of The Stock Exchange. It is expected that dealings will commence on 18th December, 1986. Listing Particulars relating to Debron Investments PLC are available in the Extel Statistical Services and copies of such particulars are also available during normal business hours from the Company Announcements Office of The Stock Exchange for collection only until 22nd December, 1986 and any weekday (Saturdays and Public Holidays excepted) up to and including 31st December, 1986 from:

Debron Investments PLC,
Witco House,
Barbours Road,
Worcester
WR1 1RT

de Zoete & Bevan Limited,
Ebbgate House,
2 Swan Lane,
London
EC4R 5TS

Robert Fleming & Co. Limited,
25 Copthall Avenue,
London
EC2R 7DR

18th December 1986

NEW ISSUE

17th December, 1986



Nippon Telegraph and Telephone Corporation

(Incorporated in Japan under the Japanese Commercial Code and The Nippon Denshin Denwa Kabushiki Kaisha Law)

Yen 50,000,000,000

5 3/4 per cent. Notes due 1993

Issue Price 101 1/2 per cent.

Nomura International Limited

Algemene Bank Nederland N.V. Bank of Tokyo International Limited

Banque Paribas Capital Markets Limited Crédit Lyonnais

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Goldman Sachs International Corp. IBI International Limited

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Mitsui Trust International Limited Morgan Guaranty Ltd

Morgan Stanley International The Nikko Securities Co., (Europe) Ltd.

Nippon Kangyo Bank (Europe) Limited Salomon Brothers International Limited

Swiss Bank Corporation International Limited Tokai International Limited

Union Bank of Switzerland (Securities) Limited S.G. Warburg Securities

Yamaichi International (Europe) Limited

UK COMPANY NEWS

Philip Coggan on a plumbers merchant's move into a higher league

Wolseley's cardinal virtue

WOLSELEY, the heating and plumbing merchant, must have one of the lowest public profiles of Britain's larger companies. Yet over the past 18 months, it has quietly gone on an acquisition drive which has pushed its market capitalisation to £400m and moved it into a higher league.

The largest buy was the builders' merchants group Grovewood Securities, which Wolseley bought from BAT Industries for £109.5m. A full year's contribution from Grovewood should push pre-tax profits from £50m to £75m this year.

But despite the solidity of its core merchandising business, Wolseley has never had a clear market image. "Nobody knows what it does," confessed one analyst—and when the Stock Exchange graded stocks for the post-Big Bang trading systems, it originally classified Wolseley as a gamma, the lowest possible rating, (before finally putting it into the beta category).

In part, that was because investors had been reluctant to sell their shares. Institutions clinging to the shares like "dust," believes Mr Mark Stockdale of Savory Miln. "I suppose it was a back-handed compliment," admits Mr Jeremy Lancaster, Wolseley's chairman. The 55-year-old Mr Lancaster, who succeeded his father in 1978, is very much his own man. The rather startling appearance of Wolseley's recent annual reports is witness to his love of modern art. And he has strong opinions about Wolseley, which he wants to turn into one of Britain's major industrial holding companies.

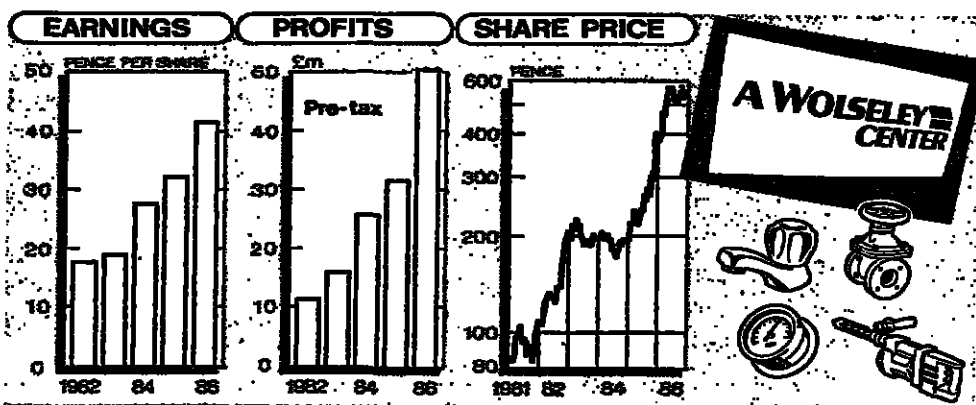
While some analysts may doubt whether Wolseley will ever be seen in the same league as BTR, there is no doubt that it has enjoyed strong growth over the past few years.

Pre-tax profits have risen from £11.1m in 1982 to £50.2m in the year to October. Earnings per share climbed 29 per cent last year to reach 41.4p.

Wolseley has been in existence for nearly a century, having abandoned car production in 1901 because it felt the internal combustion engine had no future.

In the 1950s, it was known as the Wolseley Sheep Shearing Machine Company but it was in the early sixties that it took its first steps towards its modern form, when it acquired the Oil Burner Components (OBC) chain as part of a merger with Nu-Way Heating Plants.

Almost by accident, the group had tapped into the early



stages of the growth of central heating, aided by the Clean Air Acts and a rising standard of living. OBC's original 11 outlets have become 268 Wolseley branches today.

Plumbing was added to the range in 1974 but Wolseley has never deviated from its policy of selling to the trade rather than directly to the public. Distribution is its strength. Goods are sent from one of its three regional centres each morning with a computerised order ensuring that each outlet is supplied twice a week.

It is an efficient system which cuts down on wasted stock (special items can be kept at regional level and sent to the outlets only in response to a customer order) and allows Wolseley to exploit its buying muscle. Its size means that it is the major customer of most of its suppliers, with all the opportunities for obtaining discounts that implies.

Each time the Wolseley management has started to worry that the limits on its UK outlet expansion have been reached, it finds itself able to supply smaller areas. Mr Lancaster points proudly to the map in Wolseley's annual report which shows its UK locations, scattered from Aberdeen to Truro.

Those outlets were expanded by 39 in August 1985 when Wolseley bought the Plumb-Center chain from Marley for £8m. The OBS and Plumb-Center images are now being merged under a white tag logo.

Wolseley diversified across the Atlantic in the early eighties when it bought Ferguson Enterprises, a Virginia-based merchant, for £17.1m.

That immediately gave the group 54 outlets in the US and the long, patient building process was able to start again.

Because the US operation has less presence in the market than its UK equivalent, it cannot always depend on increasing profits by exploiting its buying muscle. So it tries to increase sales by using a marketing technique described by Mr Angus Pearce of County Securities as "brilliantly simple."

Each day, Ferguson's employees are not allowed to go home until the next day's deliveries are fully loaded. That means that the company can be making on-site deliveries when competitors are still doing their morning loading. The customers appreciate the service and stay loyal.

The US business lacks, because of the distances involved, the regional distribution centres that characterise the UK operation. Each branch has its own buyer, which places a lot of emphasis on the business acumen of the local manager. As a consequence, and in stark contrast with the UK, Ferguson recruits a lot of college graduates to run its merchant centres.

Ferguson is not Wolseley's only recent US purchase. In November 1985, it paid \$77m for Carolina Builders Corporation, a timber merchant, which had increased its pre-tax profits by 371 per cent in the previous four years. The deal helped increase US outlets to 121 by the end of this year.

But the most significant acquisition was the £109.5m purchase of Grovewood. Because of its low public profile, Wolseley was not everyone's favourite to take the group over, but in fact there was a remarkable fit between the two companies. Most obviously, Grovewood possessed two firms of builders' merchants, Ray and Harris, whose products were slanted to-

wards the heavy end of the trade and thus added a valuable add-on to Wolseley's range.

There were other similarities between the groups. Since its sheep-shearing days, Wolseley had been involved in agricultural machinery, providing around 5 per cent of group turnover and profit. But its manufacturing activities were hit by the agricultural depression, whereas the Grovewood companies, Vapormatic, Spax and Dillhurst, being involved in spare parts distribution, were benefiting from farmers' decisions to try to maintain their ageing machines.

The Grovewood acquisition also added companies which might not on the surface seem logical fits into the Wolseley portfolio. However, the new electrical division's main components, Ashley Accessories and Rantin, are both companies closely associated with the building and construction industries, the former supplying electrical wiring accessories, the latter electrical sockets and plastic trade mouldings.

There were some non-related businesses in the package, notably in technical services. Most acquiring companies would be expected to sell off the surplus, but that does not fit in with Mr Lancaster's philosophy. "I've never believed," he says, "that companies are commodities to be traded in."

Although he is well-liked in the City—"He is a man you can trust," believes Mr Mark Stockdale of Savory Miln—Mr Lancaster dislikes personality cults.

He says the group has management strength in depth, such as Mr John Chislett who once was this boss and now is in charge of the US operations, and Mr Fred Pickles, who joined the group from Grovewood and is now chief executive of the electrical and consumer products division.

What does the future hold for the Wolseley team? Will acquisitions in the newly-formed post-Grovewood divisions seem likely, as does a further move into the US, which Mr Lancaster would like to see move from its current third of turnover to around a half.

Rival bidders lift stakes in LCAH

MAI and Piccadilly House, rival suitors for control of London and Continental Advertising Holdings, have both raised their stakes in the outdoor poster group.

MAI, which has launched a full offer at 118p a share, now holds 27.9 per cent of ordinary shares. Australian-controlled Piccadilly Holdings, which now has four directors on the LCAH board, holds 19.1 per cent and options over a further 10.8 per cent.

LCAH shares were unchanged at 120p yesterday while MAI shed 5p to 426p where its 27-for-100 alternative values LCAH shares at 115p.

ARENSEN GROUP: Mr Archy Arenson, chairman, told AGM that he looked forward to reporting general improvement in financial affairs both at interim and final stages of current year.

The Fleming Japanese Investment Trust plc

The company's policy is to specialise in investment in Japan with the emphasis on capital appreciation.

Highlights of the period to 30th September	1986	1985	% change
Total assets	£162.1m	£71.4m	+127.1
Net asset value per ordinary share	1006p	459p	+119.0
Ordinary share price	710p	406p	+74.9

"The success of our Japanese specialisation has been very marked and still appears to be soundly based. We propose a capitalisation issue of four shares for each share held."

P.A.F. GIFFORD Chairman

If you would like a copy of the Fleming Japanese Annual Report and/or a copy of the Dividend Reinvestment and Savings Scheme brochure, please tick and return the coupon to: Robert Fleming Services Limited, 25 Copthall Avenue, London EC2R 7DR.

Name

Address

FLEMINGS

Schlumberger

ANNOUNCES REGULAR DIVIDEND AND FOURTH QUARTER CHARGES

New York, New York, December 11—The Board of Directors of Schlumberger Limited today announced that the Company will take non-recurring charges in the fourth quarter of 1986 of approximately \$17 billion or \$6 per share. These charges relate to the Oilfield Services segment of the business in the amount of \$1.4 billion, and to the Measurement, Control and Components segment in the amount of \$12.5 billion. \$12.5 million of the balance represents potential interest related to the Company's pending litigation with the U.S. Internal Revenue Service with respect to income from continuing wireline operations on the outer continental shelf of the United States for the period 1970 through 1986.

The Oilfield Services charges consist primarily of write-offs of goodwill at Dowell Schlumberger, the 50% owned pumping services division, and at Sedco Forex, the Schlumberger drilling services division; the remaining charges include the write-offs and write-downs of certain Oilfield Services equipment and inventories. The Measurement, Control and Components charges consist mainly of provisions for consolidations of operations in both the Measurement and Control and Computer Aided Systems groups.

Euan Baird, Chairman and Chief Executive Officer, stated, "In 1986, we have reduced the size of the Company, both in organization and assets, to meet the expected business levels. In particular, we have reduced the Oilfield Services personnel by 35% in 1986." The Board also declared a quarterly dividend of 30 cents per share on outstanding stock. The dividend is payable January 16, 1987 to shareholders of record December 22, 1986.



CONSOLIDATED MURCHISON LIMITED

Reg. No. 05/05478/06

Incorporated in the Republic of South Africa

DECLARATION OF INTERIM DIVIDEND NO. 78

Interim dividend No. 78 of 30 cents per share has been declared payable to holders of ordinary shares, registered in the books of the Company at the close of business on 9 January 1987. The dividend has been declared in the currency of the Republic of South Africa and payments from London will be made in United Kingdom currency. The date for determining the rate of exchange at which the currency of the Republic will be converted into United Kingdom currency will be 19 January 1987 or such other date as set out in the conditions subject to which the dividend is paid. These conditions can be inspected at the registered office or office of the London Secretaries of the Company. Warrants in payment of the dividend will be posted on or about 13 February 1987. The transfer books and registers of members of the Company in Johannesburg and London will be closed from 10 January 1987 to 16 January 1987, both days inclusive.

By Order of the Board
Angloval Limited
Secretaries
per: E. J. Thomas
Registered Office:
Angloval House
56 Main Street
2001 Johannesburg
17 December 1986

London Secretaries:
Anglo-Transvaal Trustees Limited
295 Regent Street
London W1R 8ST

PACIFIC DUNLOP

PACIFIC DUNLOP IS COMING TO LONDON

Following three years of strong growth, Pacific Dunlop is seeking a listing on the London Stock Exchange.

Recent International highlights include:

- A 50-50 joint venture with The Goodyear Tire and Rubber Company to manufacture and market tyres in Australia, New Zealand and Papua-New Guinea. Goodyear will provide their world-class technology and the joint venture will invest A\$200 million in equipment and facilities over the next five years. Government approvals for the venture are now being sought.
- Expansion in Australia and New Zealand of tyre distribution and in Australia of electrical product distribution, each of which is the largest in its region.
- Growth in the polyurethane foam business in three countries, including a joint venture with Leggett and Platt in the USA.
- Three joint venture manufacturing agreements in China.
- A new optical fibre plant in Melbourne.
- Subsidiary company Ansell International added five new latex factories in Europe, S-E Asia and North America.
- Acquisition of a second US footwear manufacturer, Revelations.

Financial performance in year ended 30 June 1986

	A\$	Percentage increase over year ended 30 June 1985
Sales	2.4 billion	+29.8%
International Sales	544 million	+74.0%
Profit (After tax and interest)	110.5 million	+33.6%

Market capitalisation exceeded A\$1 billion for the first time, and has now risen to A\$1.6 billion. Shareholders received an increased final dividend, as well as a bonus issue of one share for every ten held.

Pacific Dunlop's application for listing on the London Stock Exchange reflects its growing international business. Listing in the UK will give better access to international financial markets and a broader investor base.

Pacific Dunlop Limited

Listing particulars relating to Pacific Dunlop Limited will be published in due course and, together with copies of the Company's 1986 annual report and accounts, will be available from:

Credit Suisse First Boston Limited
22 Bishopsgate
London EC2N 4BQ

Cazenove & Co.
12 Tokenhouse Yard
London EC2R 7AN

Pacific Dunlop Limited
500 Bourke Street
Melbourne 3000
Australia

This advertisement is issued by Credit Suisse First Boston Limited on behalf of Pacific Dunlop Limited.

People, ideas, technology.

**BAKER
HARRIS
SAUNDERS**
Interim Results

	Unaudited 6 months ended 31st October 1986 £000	Proforma Year ended 30th April 1986 £000
Turnover	1,675	2,351
Profit before taxation	774	800
Taxation	294	349
Profit after taxation	480	451
Earnings per Ordinary share	5.6p	5.3p

We are pleased to announce interim profits for the Group, before taxation, of £774,000, for the half year ended 31st October 1986. This result is well on target with our forecast profit, before taxation, of £1.6m for the year ending 30th April 1987. We are still experiencing high levels of activity within the City property market following 'Big Bang' and the Directors feel confident that our forecast earnings for the year ending 30th April 1987 will be achieved.

Copies of the interim report will be posted to shareholders shortly, or may be obtained from our registered office, Blackwell House, Guildhall Yard, London EC2V 5AB. Tel: 01-726 2711.

UK COMPANY NEWS
Pains—Wessex helps to boost Chemring by 87%

BY ALICE RAWSTHORN

Chemring Group, the defence supplier, watched its share rise by 87p to 615p yesterday on the announcement of an 87 per cent increase in pre-tax profits to £3.06m in the last financial year, buoyed by the acquisition of the pyrotechnics manufacturer, Pains-Wessex.

The acquisition of Pains-Wessex—which was purchased for £14m from the US holding company, Allegheny International—was completed in January. Although the Pains-Wessex plant was hit by a fire in February and its export markets suffered from a downturn in demand from the Middle East after the oil price collapse, it made a substantial contribution in its first 36 weeks with the company.

Pains-Wessex produced pre-tax profit of £1.29m on turnover of £9.9m in the year to September 30. According to Chemring's chairman, Mr Ian Fairfield, it has now fully recovered from the fire and has recently experienced an improvement in demand from the Middle East.

Since the acquisition Chemring has streamlined the management and cut operating costs. The total savings are rather higher than expected at around £1m a year.

Chemring itself mustered underlying growth in pre-tax profit of around 8 per cent, producing profit of £1.76m on turnover of £9.09m. Most of its growth has been generated by exports to countries within NATO.

Earnings per share increased to 54p—or to 51.1p if fully diluted—(56.8p) and the board proposes to pay a dividend of 18.5p (13.5p).

Mr Fairfield described the prospects for the current financial year as encouraging, because we have seen an improvement in demand and the full benefits of the acquisition will come through.

The benefits of Chemring's acquisition of Pains-Wessex were so well signalled at the time of the acquisition, that the City's belated compliment—of a 35p increase in the share price to 615p yesterday—seems rather superfluous. Indeed the acrobatics of the share price disguise a rather messy period for Pains-Wessex. The debris from the fire has been swept away, but the collapse of its Middle East markets—which represented 30 per cent of sales before the oil price crisis—will take rather longer to mop up. That said the cost benefits for Pains-Wessex are, at £1m, rather than £500,000, rather better than expected and may improve again this year. With projected profit of £4.3m for the current year, shares are fully valued on a prospective p/e of 10.5.

Poor summer hits Jurys Hotel

THE IRISH hotelier, Jurys Hotel Group, reported a fall in pre-tax profit for the six months to October 31, 1986 from Ir£1.62m (£1.53m) to Ir£1.32m (£1.23m).

It was stated that despite the severe setback in trading during the summer months, the company was confident that prospects remained bright. The Cork hotel projects and the first phase of the Dublin projects are due for completion in April 1987.

Mr N. G. Weldon, the chairman, was satisfied that if more favourable trading conditions were obtained in 1987-88 the company would be well placed to take advantage of whatever opportunities arose. Business for the second half was considerably less tourism-dependent than for the first half, and the company was hopeful that sales revenue for the latter half would be affected to the same extent as that experienced for the summer months.

Turnover for the period fell from £2.77m to £2.35m and the trading profit was £1.39m (£2.06m); depreciation charged was £282,000 (£244,000) and net interest received was £89,000 (debit £182,000). Tax (not comparable with the charge for the same period in 1985) was £170,000 (£151,000) leaving net distributable profit of £1.05m (£1.47m) and net earnings per share of 5p (9.2p).

An interim dividend of 1.5p has been declared compared with a single payment of 3.5p for the previous year.

Widney falls to £0.39m but dividend up

A further downturn in the second six months of 1985-86 left Widney, a general engineer, with full year profits of £390,000 pre-tax, a fall of £218,000 on the previous year's £608,000.

However, an increase in activity since the spring has been maintained in the first quarter of the current year and turnover is expected to be up by over 20 per cent compared with the corresponding period of last year.

Meanwhile, the dividend for the year to September 30, 1986 is being stepped up from 0.53p to 0.8p net, the final being 0.47p.

SOUNDTRACE, maker of audio mixing consoles, increased its profits to £532,648 pre-tax over the year to November 7, 1986. That compared with last year's £328,648 and with the directors' forecast of £500,000 when the company came to the USM in June.

The current year began well and the directors anticipate further growth in profits.

Turnover for the past year totalled £2.63m (£1.81m). Earnings amounted to 3.64p (2.28p). The dividend is 1.2p net per 5p share.

Newman Tonks in £7m US expansion

BY STEPHEN THOMPSON

Newman Tonks Group, the Birmingham-based manufacturer and supplier of products, materials and services to the building and engineering industries, yesterday announced a \$10m (£7m) US acquisition and said it had achieved the profit forecast during its successful defence against McKeechle Brothers last March.

Newman has purchased Quality Hardware Manufacturing Inc based in Hawthorne, near California, which manufactures quality branded hardware products for architectural and builders supply markets throughout the US.

Newman is paying for Quality via a vendor placing of 4,608,720 new ordinary shares at 152p a share. They were placed yesterday with clients at Newman's brokers, Phillips & Drew and Albert E. Sharp. The shares will rank pari passu with existing ordinary shares and qualify for the final dividend in respect of the year to October 31.

On completion of the deal, Newman's issued capital will rise from 64.42m shares to 69.03m shares.

Newman said yesterday that with its Monarch subsidiary Quality would enable Newman Tonks to become an even more significant force in the US hardware market.

In a letter to shareholders Mr T. C. Frankland, Newman's chairman, said Quality "fitted exactly in Newman Tonks' chosen field of branded products" and "was a significant step in stated policy of achieving growth organically and by acquisition."

Newman said yesterday that it was estimated that the company had achieved its pre-tax profit forecast for the year to October 31 of at least \$8.15m and earnings per share of approximately 12p, on the basis of these estimates the board recommended a final dividend of 4.2p, making 7.2p for the year.

Half-year profit rise boosts Brookmount's confidence

Brookmount, property developer, saw its pre-tax profit rise by more than 98 per cent from £260,000 to £508,000 in the six months to September 30, 1986. Turnover in the same period fell from £1.9m to £1.8m.

The directors of Brookmount, which came to the USM in January, said that prospects for the company's future expansion were most encouraging and they looked forward to the full year's results with confidence.

They said that during the half year good progress had been made on the developments under construction at Cambridge, Chesterfield Gardens and New Malden. Plans for further developments at Uxbridge and Brooklands were well advanced and existing developed properties at the latter site had been sold for £18.75m.

Since March 31 the company had made planning applications on sites at Stockton, Chelmsford and Clacton—all relating to retailing and, where possible, leisure and other activities.

Brookmount had also entered into a joint venture with Blue Circle Property Holdings to develop a 356-acre site outside Luton into a leisure, sports and exhibition complex.

The shopping centre investments continued to trade successfully and significant rental growth was expected at the next rent review in October 1987. A redevelopment of the retail warehouse investment would increase rental income and investment value substantially.

Administration costs rose to £290,000 (£245,000) while income from fixed asset investment fell from £73,000 to £54,000. Interest and similar charges accounted for a total of £185,000, down from £289,000 last time.

After tax, £182,000 (£73,000) earnings per share worked through at a weighted average of 6.5p (5.8p). The declared interim amounted to 1.3p (nil).

The directors stated that had the company's share capital been dealt in on the USM throughout the year to March 31, 1986 they would have expected to recommend dividends totalling 3.5p for the year.

Baker Harris beats prospectus forecast

Baker Harris Saunders Group, the specialist City-based firm of commercial estate agents and property advisers which came to the market in October, announced a pre-tax profit of £774,000 for the six months to October 31, 1986 compared with a profit of £200,000 for the whole of the previous year.

Mr Richard Saunders, the chairman, said the result was well on target with the forecast profit before tax of £1.8m for the year ending April 30, 1987. He said the company was still experiencing high levels of activity following "Big Bang" and the directors felt confident that the forecast level of earnings for the year ending April 30, 1987 would be achieved.

Instructions, he said, were being received for a variety of work. Since the flotation the company had been appointed as development consultants on two large City development projects.

Turnover for the six months was £1.68m against £2.38m for the whole of 1985-86. Tax took £294,000 (£349,000 for the year) leaving a net profit of £480,000 (£451,000) and earnings per share of 5.4p (5.3p). No interim dividend is proposed but a final of 2.0p is forecast for the year ended April 30, 1987.



Big though he is, he's only part of our strength.

Everyone knows the Homepide label. It's a big earner, a big profit-maker, for us here at Dalgety.

But popular though he is with the customer, Fred The Flour-Grader is only one of the household names in our team.

You'll just as quickly recognise our latest acquisition, Golden Wonder, for instance, with its crisps and por noodles.

While in petfoods, names like Winalot, Bonio, Prime and Kattomeat certainly ring a bell. And cash registers.

Not that strong brands are our sole line of business.

All round the world, the Dalgety name is also famous for food in bulk.

We supply grains to millers, flour to bakers, malt to distillers and brewers. Farmers

buy Dalgety animal feed, sow Dalgety seeds, and rear Dalgety livestock.

We're a major world force in major commodities like cocoa, coffee and sugar.

In North America, we own the largest single fast food distributor in the world (as McDonald's, among others, will know).

Over the years, the Dalgety plan has been to develop wisely and manage well, and become a very strong link in the world's food chain.

Since the world must eat, that is also Dalgety's strength for the future.

Dalgety
A name that goes from strength to strength.

The National Mutual
Life Association OF AUSTRALASIA Ltd.

has acquired

Schroder Financial Management Limited

from

Schroders
PUBLIC LIMITED COMPANY

The undersigned assisted in the negotiations and acted as financial advisers to National Mutual in this transaction



ORION ROYAL BANK LIMITED
A member of The Royal Bank of Canada Group

December 1986

FINANCIAL TIMES SURVEY

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International Construction

The squeeze on the growth areas in the Middle East, because of falling oil prices, has intensified competition in the international construction industry. With mega-projects petering out, contractors have had to satisfy order books with smaller-scale building and infrastructure schemes

A tightening of belts

By Joan Gray,
Construction correspondent

INTERNATIONAL contractors still have their belts pulled in tight. The last of the Middle Eastern mega-projects of the oil boom years are coming to an end, while many of the countries which have the most desperate need for new roads, sewers, dams, bridges, hotels and hospitals have the least ability to pay for them.

There is fierce competition for work in those "hotspot" countries which can pay for work and which are spotted as the most promising new areas, and the great growth market of China, which all the contractors were looking forward to supplying with such eager anticipation. It is far from providing a new bonanza.

Contractors from developed countries, accustomed to selling their own skills abroad, are having to face new competition in their own backyards from overseas rivals who are equally short of work.

The backdrop to the whole increasingly competitive international contracting industry is the downturn in workloads as a result of falling oil revenues. Companies that had grown accustomed to building major

airports, dams, harbours, universities, hospitals and Olympic sports arenas are now having to bid for small schools, local health centres, football clubs, warehouses and factories and the occasional luxury villas.

The effects of this downturn are felt not just in the contractors' order books, but also in the domestic economies in which they operate.

The £450m stadium which Bovis of the UK and Philipp Holzmann of West Germany built in the desert outside Riyadh, for example—designed to echo the shape of a Bedouin tent in a structure the height of a twenty-storey building—created direct exports from the UK alone worth at least £100m.

And of the £227m spent up to September in Oman on the Sultan Qaboos University, which is being built by Britain's Cementation International (part of the Trafalgar House Group), £131m was spent in the UK.

The £2.5bn project to give Cairo a new sewage system—the largest public health project in the world—is currently suffering from funding difficulties. This in itself is estimated as likely to generate export orders worth more than £750m for British manufacturers and sustain more than 20,000 UK jobs.

The picture, nevertheless, is not all gloomy, as Mr Mike Slater, managing director of

Cementation International points out.

"We expect a recovery in international workloads in the next two or three years. The Middle East remains a good long term market because, even if oil stays at \$15 a barrel, once the trauma of the fall from \$26 a barrel is overcome there is scope for developing alternative industries and completing the infrastructure."

"If the oil price stays down it could create new markets in all those third world countries where development has been held back because of the burden of oil prices."

At the same time, China, despite the \$80bn it has earmarked for capital construction, has proved a difficult market for contractors.

British companies, particularly, have found it hard to compete successfully with the Americans and Japanese. The only British companies to have achieved notable successes in China are Trafalgar House and Costain.

Trafalgar's half-owned subsidiary Gammon Hong Kong has completed six Chinese contracts starting with a £12m Pepsi Cola plant, Costain, with consultants Ove Arup and its Hong Kong partner Hopewell, is building the \$300m Shajiao power station in Guangdong province—the



The £310m Sultan Qaboos University in Oman, built by UK's Cementation International, is among the last of the present era of mega-projects in the Middle East

largest Chinese contract won by a British company so far.

Japan's Kumagai Gumi, now one of the world's top twenty contractors with overseas orders worth ¥367,516m (£1,466m) has been one of the most successful companies in winning work in China.

The Japanese group already has five or six projects in China under its belt, a success which Mr Motoo Otsuka, a senior managing director, attributes to his ability to fund projects and to his realisation that there are "three problems with work in mainland China."

Firstly, "a deal will usually take ten times as long as in a developed country, so you must be very patient," secondly "you always need financial support," and thirdly "the Chinese people are very tough negotiators; if we don't do business now we may lose the chance five or ten years later."

It is not only in China that the Japanese contractors have been remarkably successful. They have already boosted the volume of construction work

they carry out in the US from less than \$50m in 1981 to \$1.7bn in 1985 and are now interested in expanding in the UK.

The Japanese push to the west has been prompted by a downturn in domestic construction spending which has left them with lightened order books.

Since 1973, construction as a percentage of Japan's GNP has fallen from just over 24 per cent to about 15 per cent this year; a shortfall which the Japanese contractors are determined to make up by increasing construction work overseas.

The future, the Japanese contractors seem to agree, lies with the wealthier developed world, with projects such as a ¥15bn electric power plant in Manitoba, ¥43bn Hyatt Regency Hotel in Hawaii, and projects in Manhattan worth about \$1bn.

Although the market for classical civil engineering projects in the UK is in the doldrums, the market for building offices is booming in the wake of the Big Bang removal of restrictions by the London Stock Exchange.

Kumagai is, for example, act-

ing as overall design and building contractor in a £60m plus project converting the former Post Office headquarters by St Paul's Cathedral in the City into a London headquarters for Japan's largest securities dealer, Nomura.

Kumagai is also working on a £75m scheme to redevelop the former Bourne and Hollingsworth store in London's prime shopping centre, Oxford Street.

Another Japanese major, Shimizu, has just paid \$6m for a historic building in London's Old Bond Street and is looking for further prestige London sites.

The Japanese have so far contented themselves with acting as prime contractors, working with local UK companies but it is expected that they will want to cement their involvement in the UK by buying a British construction company.

Just as the Japanese have moved to the US and UK to escape from their declining

home market. A string of British materials companies have bought into the comparatively buoyant US road building market which is a major consumer of aggregates and stone.

Major materials purchases in the last three months include C. H. Beebe's \$275m acquisition of the Gifford Hill group, while in September, Redland paid £24m for the Colorado based aggregates company MPM and then in October bought the Maryland-based Genstar Stone for £220m.

In November Tarmac paid £171m for 60 per cent of the Texas based Lone Star's cement, concrete, aggregate and block-making activities in Virginia and the Carolinas.

In October, Bovis International bought 50 per cent of America's sixth largest construction management company, Lehrer McGovern, the company responsible for restoring the Statue of Liberty and the immigration centre at Ellis Island.

The move, said Mr Frank Lampl, Bovis chairman, was a

Middle East, Oman, The US 2

South Korea, Japan, China 3

The UK, France, Channel Tunnel 4

"strategic measure to increase the company's presence in the world's largest construction market with a turnover of \$37,000 a year."

"We are also aiming for the large international projects financed by American multinationals, and which are more likely as a result to appoint an American based contractor," he added.

It has become almost a truism to say that if contractors want to win large projects they must be able to offer finance; increasingly, they must also be able to spot projects in advance for themselves, and suggest how they could be designed, financed and managed and operated.

A new fierceness of competition in this area, in what might be termed project futures, have emerged this year in the battle for the contract to build the third Bosphorus Bridge, across the straits that divide the European and Asian halves of Turkey's commercial centre, Istanbul.

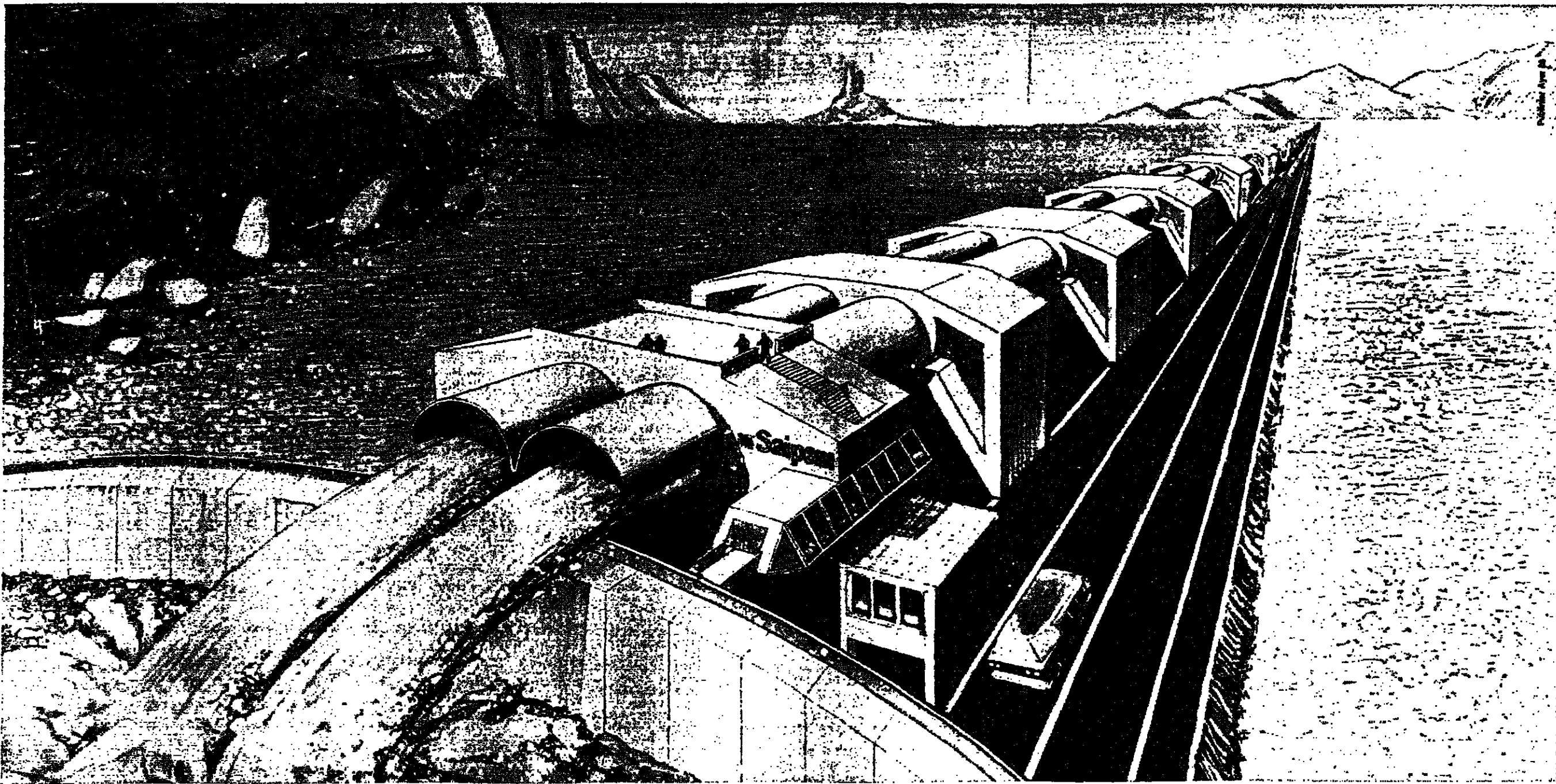
The second Bosphorus bridge, now being built by a consortium led by the Japanese company C. Itoh, is not even due to be completed until 1988, but the contractors are predicting that it will become overloaded in 1990.

Trafalgar House—which built the original and now overloaded Bosphorus Bridge in 1973 and was piped in its bid to build the second—was the first to get in with a proposal that it could build the third, for £368m, in a joint venture with the Turkish contractor Enka.

Trafalgar and Enka were delighted that their proposal was greeted with approval by the Municipality of Istanbul—and extremely miffed when the Municipality announced the fact, as they had wanted to keep their plan secret for fear of alerting potential rivals.

A second contender already appeared, in the form of a so far unidentified Japanese consortium. This second proposal has also been given approval in principle by the government, as long as the contractor funds, builds and operates it so as to provide a new bridge for as low a cost as possible.

It is a token that international contracting companies that survive are having to look and plan ever further ahead.



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International Construction 2

Middle East

Tougher times for the mega-project

THE RECENT recovery in oil prices came too late to save 1986 for foreign contracting companies operating in the Middle East. Faced with sharply lower revenues many countries in the region have virtually frozen payments, blocked any new projects and some have refused to publish budgets for fear that this would imply hard spending commitments.

Yet in spite of this overall climate there has been a number of new contracts—the favoured sectors have been military installations, the odd prestige building and modest (up to \$50m) road projects. However, the general pattern has been payment delays and a scaling down of international involvement as local companies win more of the "bread and butter" orders.

The payment fears of foreign contractors in Saudi Arabia were, justifiably, intensified by King Fahd's March announcement that the annual budget was to be delayed five months. Any week now the Kingdom is expected to announce spending plans for the year from December 21 of around \$71m, some 10 per cent below the 1985 level.

Overseas contractors working in Saudi Arabia are estimated to be owed \$8bn, with South Korea waiting for more than \$1bn. The government insists that there is no payments freeze policy. As a protest would lead to exclusion from future contracts, contractors feel obliged to suffer in silence. Further souring the dealings of many foreign companies is the collapse of many of the once fashionable joint venture companies—set up with either local companies or sometimes just with an individual. While most will be glad to see the end of these cumbersome arrangements, the disputes arising could well keep the courts (or the accountants) busy for some time.

In the midst of all these difficulties several companies are still making progress. One of these is Dumez of France which has 2,500 workers, 100 Europeans included, on its Saudi payroll. Dumez won the \$44m contract to build the Gulf Coordination Council's new headquarters in Riyadh and was the lowest bidder at \$80m, on the Makkah Road project.

Contracts believed to be in the offering for early next year include the Justice Palace in Riyadh and the Royal terminal at the King Fahd airport.

The UAE's federal budget was replaced for most of 1986 by monthly expenditure guidelines drawn up on a 1985 minus 30 per cent basis. Local companies are winning almost all contracts being put out for tender.

In Abu Dhabi, which has not published a budget for two years, the sole flip for the contractors was a series of contracts that were brought forward when the GCC announced that it would hold its November summit in the Emirate. Some \$100m worth of work, most of it road projects, were rushed through what has become a labyrinthine tendering/re-tendering process.

One of these GCC-related contracts involved the widening of the road between the Inter-Continental Hotel and the airport and was awarded to a local company which tendered \$41m. Another \$34m order went to a joint-venture between Pauling of the UK and a local company.

Contractors are hopeful that a number of sizeable contracts will be put out for tender in the coming year. At Al-Ain, the new UAE university site, South Korea's Hyundai Engineering and Construction won the \$50m runway construction contract in May but the terminal building and the royal pavilion, together valued at around \$45m, are still to come.

Also in the pipeline is said to be the \$115m Hodayat Island bridge contract—Daelim of South Korea were the lowest bidder in the February tender but there is speculation that rebidding may be ordered. Otherwise there is a series of \$15m to \$35m road projects and the \$35m Eilat telecommunications headquarters.

Dubai has proved to be something of an exception to the regional rule—it has been scrupulous over making payments on time. Several major contracts were signed up in the course of the year and are expected to go ahead.

One of these is the rulers new diwan, a \$33m prestige project, which is to be built by two local companies. The largest contract was the \$152m Jabel Ali power station and desalination complex which went to Korea Heavy Industries and another significant job was the \$41m upgrading of the Dubai to Al-Ain road, which was awarded to the Dubai Transport Company.

In Oman, few construction contracts came up for tender

in 1986. Although budgeted expenditures have been held steady in local currency terms, January's devaluation implies that there was a \$300m cut to \$4.9bn. Analysts expect that construction will fall to half of 1985's \$700m.

The position of contractors in Iraq has been greatly affected by the deferral of the country's 1986 debt payments. While the \$1.5bn Bekme Dam project is going ahead up to half the payment is to be made in promissory notes. Enka, the Turkish contractor, has tied up with a Yugoslav company, Hidrogradnja, for the project. Enka reduced its bid after the tender closed in order to win the deal. Meanwhile, Japanese companies are concerned as to the outcome of earlier debt referral arrangements. By mid-year some \$2.2bn was outstanding and all the signs are that Iraq will seek to roll over those coming due. For Hyundai, Iraq has replaced Saudi Arabia as the major market—over half the company's new orders in 1986 came from Baghdad—although it, too, is having to accept a growing number of promissory notes.

In Libya, Bilfinger & Berger of West Germany has felt obliged to stop work over protracted nonpayments. The company claims that \$22m is owed it on the Tripoli corniche road project. Korean contractors are owed very large sums indeed—one, Daewoo, has bought a Belgian oil refinery so as to be able to process cheap crude from Libya as the only hope of getting paid.

The overall situation in the region is therefore not promising even if the year ends with oil strengthening away from its summer lows. Such is the backlog that even with the best will in the world, most additional revenues will already be committed.

As to new projects, the juicier medium-sized ones appear to be going increasingly to local companies leaving the overseas contractors with two options—to drop out of the market altogether and cut their overhead losses or to find ways by which they can afford to bear the enormous financial costs and risks of the few tight-margin major projects on offer.

Terry Povey

Oman

Building budgets tightened

THE \$310m Sultan Qaboos University and Hospital at the International Building in Oman is one of the last of a spate of mega-projects in the Middle East.

With the downturn in oil revenues and the completion of a more developed infrastructure, projects in the region are likely to concentrate on smaller-scale development and on diversifying the economy.

But, even though it may be one of the last of the big projects, almost everything else about the university and hospital illustrates the way contracts in the Middle East are likely to develop.

It was built to a tight timetable and a tight budget; designed for practicality rather than monumental effect; and it was a turnkey contract designed and built ready to be handed over complete down to the last laboratory bench and boudoir.

With its fountains, courtyards, fretted screens, palm trees and cool arched cloisters, the university has an air of Arabian Nights exoticism about it. But it was created to a tight cost.

The mosque, for example, with its blue and gold tiles, twin minarets, fountained courtyards and silk carpet, with space for 2,000 people, creates an atmosphere that makes builders drop their voices to a whisper.

"But you can never bring in a job this size to the clients' budget unless they are realistic," said Mr Mike Woodham, Cementation's resident manager. On the mosque, they had to cut from a design that would have cost \$5m to one that cost about \$1.5m.

"They cut back things like the marble flooring by replacing it with polished terrazzo; marble chips embedded in cement—at 10 per cent of the cost. They finished the outside in plain white faced cement rather than marble, and used panels of tiles instead of covering it with solid blue and gold."

Designing the university also presented architects YRM International with a complex labyrinth problem. Although male and female students are allowed in one another's presence, they have to be kept strictly separate in accordance with Islamic and Omani tradition, and have to approach classrooms from different directions.

So the university was built with two separate levels of walkways, linked by a network of screened spiral staircases

leading to opposite ends of the corridors.

The university also had to be built to a tight timetable. Just over four years were allocated to create a campus big enough for 10,000 people with sports halls, libraries, residences, staff housing, clubs and TV studios.

All this came from a contract signed on a bare blueprint plan with delicate wash drawings, and on a site that had to be blasted from bare rock desert.

"At its peak we were turning over work worth \$8m a month," said Mr Woodham. "It was not building it that was difficult but organising a contract at that speed and volume."

The project was driven by Sultan Qaboos and his demand that the university had to be open in 1986. It was on target and the first students arrived in November, and the hospital is on target to be completed by 1988.

But the man who was responsible for day-to-day control was the main client, Sheikh Amor, now university vice chancellor and formerly Oman's Under-Secretary of Education. The university was his brainchild, and he maintained the pace, reassuring academics and refusing to allow committees to create delay.

Since Cementation had to take overall responsibility for administering of the work—right down to ordering the diagnostic scanning equipment and hydrotherapy baths for the hospital—it was possible to coordinate phases of construction to dovetail with each other.

This also means that the client gets the benefit of the completed project without having to create a permanent staff to handle organisation.

More reminiscent of the older-style Middle Eastern contract was the way the awarded Negotiated and Lumpy led to a choice, the omanis choosing the contractor they preferred to deal with and they then agreed a timetable and price.

It was the public relations activities of Mr Mark Thatcher, son of the British Prime Minister, on behalf of Cementation International that brought the project to notice in the UK press.

This sort of process is beginning to change as, with the downturn in oil revenues, competition is becoming fiercer and the much smaller contracts available are awarded to the lowest bidder.

Joan Gray



The King Fahd International Stadium, Riyadh, Saudi Arabia, designed by British architects Ian Fraser, John Roberts and Partners is nearing completion. It is covered by the largest free span, cable-tensioned fabric roof structure in the world. Above, right: the \$700m Saudi Arabian Bahrain causeway which was opened recently. The picture shows the scale of the construction work involved. Dutch contractors Balfest Nedam, builders of the causeway, used British quantity surveyors Gardiner & Theobald International.

The US

Ready for a sharp fall

BUILDING ACTIVITY continued to increase in the US in 1986, but economists predict lower construction rates in 1987 as a consequence of slowing economic activity and unfavourable provisions in the new tax law.

Three years of sustained growth in construction will also take their toll, as vacancy rates rise and are expected to continue increasing, and new construction adds to present availability.

Non-residential construction declined in October by 7 per cent to an annual rate of \$73.06bn, making a cumulative decline for the 10 months of 1986 of 3 per cent. The figures would have been even worse except for an 8 per cent increase in school construction.

Mr Doug Handler of Wharton Econometrics says: "There is a glut of private office space on the market. With the huge disincentives from tax reform, we expect a sharp drop in construction, especially in the non-residential category."

Mr George Christie, chief economist for McGraw-Hill Information Systems adds that the worst-hit area will be office building. "The need to absorb upwards of 200m sq ft of surplus space will severely depress new construction for several

years," he says. "The adjustment is already in progress, but it still has a long way to go." He predicts a 2 per cent drop in construction contracting in 1987 to \$235.1bn as part of a "cyclical decline of the construction sector that is just beginning." The only good thing is that it will be long and gradual rather than quick and severe.

Salomon Brothers' economists Mr Richard Berner and Mr David Shulman say in a study that the pace of private non-residential construction will decline at an annual rate of more than 15 per cent over the next 18 months. Because the cyclical industry accounted for 8 per cent of the gross national product between the second quarter of 1983 and the fourth quarter of 1985, they expect the downturn to shave 0.5 per cent from GNP in the next 18 months.

The study shows that office-building will have to fall by 50 per cent before supply and demand come into balance. It notes a record 23 per cent vacancy rate for suburban offices and 17 per cent for downtown areas, and the decline is still not over.

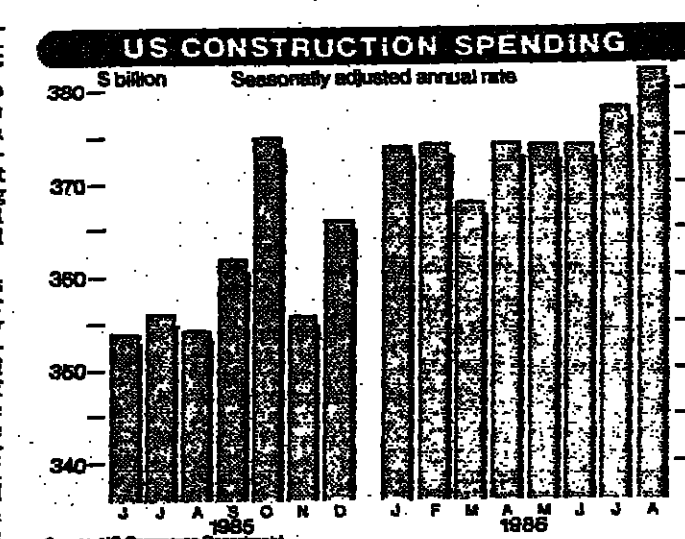
Because so much is still under construction, both the downturn and suburban vacancy rates will be 1.5 to 2 per cent higher by year-end and will remain at that level throughout 1987," it says.

The study assumes a depressing effect of the new tax law on industrial construction, where a lengthened depreciation period from 19 to 31 years will curtail capital spending for industrial plant.

"The only real offset will come from foreign investment, particularly from Japanese companies that fear that protectionism will keep their domestically produced goods out of the US market."

Building in the utilities field will also be hard hit as companies adjust to their nuclear power woes, including excess capacity where there have not been regulatory problems.

"Virtually all new construction in electric power generation represents either the completion of nuclear facilities begun in the 1970s—which recently surged as nuclear regulatory problems subsided



US Construction Contracts

	Non-residential	Residential	Other	Total
1986 1st quarter	76.4	114.0	39.7	230.1
2nd quarter	80.4	122.7	42.5	245.6
3rd quarter	78.4	121.6	41.5	241.5
4th quarter	77.5	121.5	41.2	240.2
1987 1st quarter	76.5	120.8	40.9	238.2
2nd quarter	75.3	120.6	39.7	235.6
3rd quarter	74.3	120.4	39.9	234.6
4th quarter	73.3	119.2	40.5	233.0
1986	78.2	120.0	41.2	239.4
1987	74.8	120.3	40.0	235.1
% change	-4	-	-3	-2

† Seasonally adjusted annual rates.

Source: Dodge Reports, McGraw Hill Information Systems.

— or the addition of transmission and distribution equipment."

The one thriving area in construction was retail stores, but by 1985, new building started to outstrip demand. Retailers moving into new markets absorbed new facilities, but the consequent excessive retailing activity is causing sharp competitive pressures that will hurt either the new or existing retailers. The Salomon study predicts a 36bn, or 25 per cent, decline in commercial and retail construction.

These trends are expected by economists in spite of lowered

costs of construction and declining interest rates. In 1985, construction costs rose a meagre 1.5 per cent, the lowest in 15 years, according to the Cost Information Systems Division of McGraw-Hill Information Systems.

The survey of trade unions, contractors and materials suppliers noted construction cost advances of only 0.7 per cent in the Pacific coast and Rocky Mountain states and 1.4 per cent in south-eastern and south central states. Even metropolitan New York saw only a 2.5 per cent gain in construction costs in 1985.

Similarly, the Salomon study did not think construction would be sensitive to interest rate declines. "Too much capacity is either currently available or is in the pipeline to induce an increase in the level of activity. Other sectors will have to expand more rapidly," the study concludes. "To produce that compensating growth in other sectors, interest rates will have to tumble further."

Frank Lipsius

Balfour Beatty will lead the Anglo-Japanese joint venture in building the 120MW Samanalawewa Hydro Electric project in Sri Lanka.

Balfour Beatty Group companies will construct the power tunnel, surge chamber, power station and tailrace under contracts totalling £83 million and carry out £7 million worth design work in association with Sir Alexander Gibb & Partners.

This £288 million project will bring many thousands of man-years' work to British Industry in the manufacture of generators, electrical equipment and switchgear — and power to the people of Sri Lanka.

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South Korea

Hoping the worst is over

SOUTH KOREA'S overseas construction industry, once a key plank in the country's export-led industrialisation policy, has suffered greatly from the contraction of the Middle East oil economies. Faced with the threat of bankruptcy, the Korean Government initially sponsored mergers and credit extensions but it now seems less willing to help.

The mid-1970s boom for members of the Organisation for Petroleum Exporting Countries (Opec) created the modern Korean construction company—usually the centrepiece of a family-run conglomerate, called a chaebol, that was able to use its good advantage of cheap financing and well-disciplined and comparatively inexpensive workforce. Very heavily indebted, many of these companies were unable to survive the intensification of competition and the fall-off in new business seen in the past two years.

Contracts awarded outside Korea's dependence on the Middle East market. They shot upwards in the mid-1970s from below \$10m a year to peak at just under \$14m in 1981 and 1982. However, last year the new order total fell to \$4.7bn—about the same level as that in 1977—with just over 90 per cent concentrated in the vulnerable Middle East market. In the first half of 1986, overseas construction orders fell again—by almost 50 per cent. There was some comfort, however, in the growth of orders from the Far East, worth \$335m, triple the first half 1985 level. Included in this figure is Hyundai's \$37m contract for a residential tower in Hong Kong, the first construction order ever won by a Korean company in the colony.

For the country's economy the contribution of overseas construction to Korea's balance of payments was historically even more important than the crude figures of new orders but today pride of place in earning dollars to fund the import bill and service the debt mountain goes to the car industry. For most Korean contractors the position is even worse than the overall bleak 1985 and first

half 1986 figures suggest. Just over \$20m or 44 per cent of the 1985 total was won by one company, Hyundai Engineering and Construction. In the previous year this imbalance in favour of the construction arm of the country's largest conglomerate was less marked, with about one-third of the \$5.5bn contracts going to Hyundai.

One result of the declining orders has been a flood of Korean construction workers returning home—throughout 1985 the average was some 5,000 a month. Once there were 170,000 now the figure is under 100,000 and it is still falling.

Accelerating the return of Korea's overseas workforce is the increasing trend among the surviving contractors, which are having to compete with local or regionally hired labour, to turn to Thailand, Indonesia, India, Pakistan, the Philippines and other low income Asian states for their workers.

Government concessions given in 1986 allowing up to 30 per cent of Korean workers on overseas projects have proved redundant in the face of enforced local subcontracting by clients and the commercial pressures on the companies.

The Korean Government was encouraged to some degree to take a tougher anti-bail-out line by its success in riding out the Asian collapse scare prevailing in 1984 and early 1985. In February, however, the interventionist approach came once again to the fore when the country's seventh largest conglomerate, Kukje-ICC, was brought to its knees by its construction arm. In 1984, Kukje had sales of 1.8bn won and earned \$934m in overseas sales.

Kukje-ICC was very heavily geared with liabilities some 15 times its capital base. However, after a debt restructuring, the company's construction arm was able to arrange with creditor banks for the break up of the group and the sale of the construction side. The Government has also been trying to boost the domestic construction market—although

Benefits of overseas construction

CONTRIBUTION TO KOREA'S BALANCE OF PAYMENTS (all figures in \$m)			
	Overseas construction	Total exports	Current account balance
1975	40	5,008	-1,287
1976	437	7,815	-314
1977	1,345	10,047	+ 13
1978	2,148	12,711	-1,063
1979	2,005	14,708	-4,151
1980	1,751	17,514	-5,321
1981	2,174	20,871	-6,646
1982	2,452	26,079	-2,680
1983	1,890	24,384	-1,066
1984	1,710	26,335	-1,371
1985	1,150	26,625	-851

here the main concern is creating jobs. The largest increase in the 1986 budget was in the housing construction sector, up 245 per cent to 150,000 won (\$170m). Based on what now seems over-optimistic growth forecasts for the economy of 7 per cent, the ministers clearly hoped to see the fruits of their inflationary policy coming through quickly.

However, by the middle of this year analysts were expressing caution as to the extent of the domestic construction boom. While new building permits rose by 18 per cent in the first half of the year, the value of domestic construction orders dropped 5 per cent. Private orders were down marginally while public sector orders dropped a fifth.

In spite of the strong interventionist start it made to 1985, the Government has proved less

Top ten in Middle East in 1985

	\$m
Hyundai	\$29m
Daejeon	\$22m
Daewoo	\$22m
Kukje	\$22m
Samsung	\$19m
Woori	\$18m
Daewoo	\$18m
Daewoo	\$18m
Daewoo	\$18m
Daewoo	\$18m

New orders

(\$m) 1985	
Saudi Arabia	1,646
Libya	832
Iraq	1,161
Rest of Middle East	505
South East Asia	229
Africa	52
Other	52
Total	4,691

Source: Overseas Construction Association of Korea.

balanced between the Far East and the Middle East, for the foreseeable future. The successful companies are still winning new contracts and many are diversifying into new industrial or service areas. With this in mind, forecasts for the rest of this decade suggest a useful \$500m a year contribution from this sector (which compares with a \$2.45bn slate in 1982) to the balance of payments.

Terry Povey

China

Patience wins orders

CHINA IS engaged in a massive catch-up in construction. As the country under Deng Xiaoping's reform programme seeks to modernise its industry, it is having to get to grips with an outdated and inadequate infrastructure which urgently needs overhauling.

It is also sorely short of people with the necessary skills to handle the large-scale projects now required. As such it has been turning to a variety of potential partners elsewhere in Asia and the West.

The ravages of the cultural revolution left China desperately short of technical skills and line managers. In its sixth Five-Year Plan, which ran into 1984, Rmb 215bn (\$30bn) was invested in capital construction.

Of that, almost a third was invested in 1984, indicating an upward curve which has continued in 1985 and is still.

In spite of the continuing dominance of heavy construction and civil engineering, more activity is also carrying over to housing and tourism. Over the Five-Year Plan period, living standards rose by 100 per cent and 3m of China's 1.8bn peasants move into bigger new homes each year.

In the cities, too, a major housing programme is in progress. To cope with tourism increasing by about 20 per cent a year, the hotel-building industry is also enjoying a boom. In this

sector even the Chinese realise that they must import materials, which they will be doing at a rate of about \$1.5bn over the next three years.

It is important when trying to deal with the Chinese to remember that they require genuine long-term commitment from outsiders and the assurance that there will not be one-sided exploitation of their needs.

This is confirmed by Birmingham-based Foster, Manser & Partners, a materials technology specialist which has been involved in China for 15 years.

"We based our approach on countless trips and many thousands of hours of negotiations with the message 'we want to co-operate with you and we don't want a short-term agreement but a long-term agreement,'" Mr Terence Wint, the company's director of China operations, observes.

China is looking for the best affordable appropriate technology and will look anywhere in the world to find it. The UK is at a disadvantage which can be turned into an advantage given the right spirit, he says.

The principle that patience pays has also been learnt by British quantity surveyors, who have been cultivating the relationship since 1979. In 1980 three senior Chinese civil engineers were in the UK on a second-

ment that was to last three months but stayed for six. Last year, after five years of relative inactivity, an invitation suddenly arrived for a delegation of quantity surveyors to visit and lecture in China.

The visit took place in January this year. The discussions ranged widely but tended to focus on the topic the Chinese are most concerned about—civil and heavy engineering. The visitors were constantly reminded that China is a country still struggling with its basic infrastructure and suffering from shortages of energy, raw materials and communications facilities.

The Chinese State Planning Commission sees the need for the techniques which form the core of quantity surveying: cost control and emphasis on value for money to make best use of available resources. Yet the Chinese approach remains dominated by the reluctance to import even the expertise if they can acquire it otherwise.

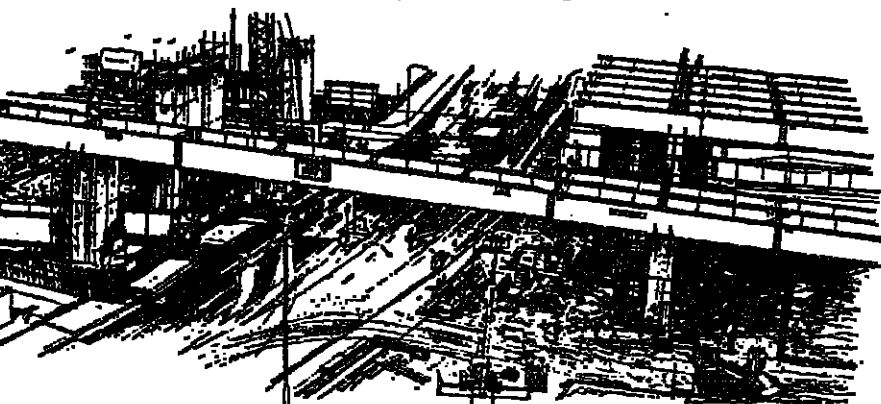
During the one-week visit, the British surveyors were made much of. Talks were attended by more than 1,000 Chinese directors and heads of department in eight government ministries, eight central design institutes, countless provincial institutes, construction corporations and universities.

Mira Bar-Hillel

Teamwork in Construction, Property and Homes Worldwide.

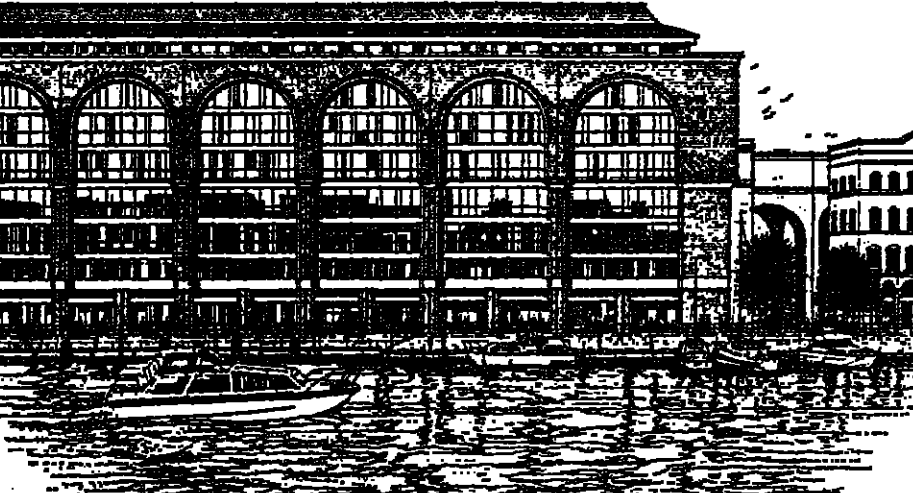
LONDON

The A406 South Woodford to Barking relief road (Contract No. 2) is being built by Taylor Woodrow Construction Limited for the Department of Transport.



LONDON

Commodity Quay at St Katharine-by-the-Tower. When completed it will provide over 243,000 square feet of offices, trading floors, residential accommodation and underground car parking and will be the new headquarters for the London Commodity Exchange.



KENT

Redwood and Pinewood detached homes at Woodlands, Vintners Park, Maidstone—a Taylor Woodrow Homes Limited development.



NORTHUMBERLAND

Butterwell opencast coal mine celebrated its 10th anniversary this year. Operated by Taylor Woodrow Construction Limited for British Coal the site produces in excess of 1 million tonnes annually and is one of the largest opencast sites in Western Europe.



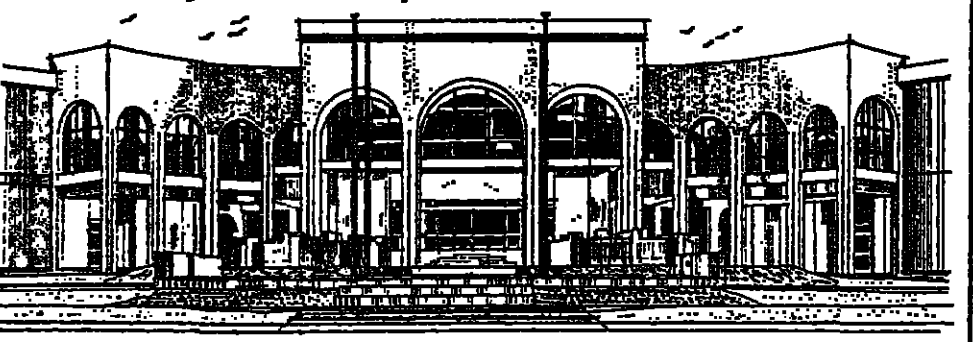
USA

Model homes at Beacon Hill Vista, part of the master planned community at Laguna Niguel, California by Taylor Woodrow Homes California Limited.



SAUDI ARABIA

School of Signals complex at Khushm al An, Riyadh. Civil and Building Works Contractor—Taylor Woodrow International Limited.



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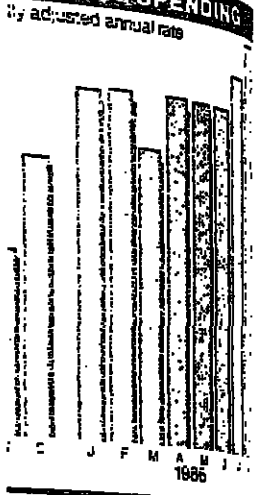
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LONDON (A406) Consulting Engineers: Beina Colquhoun & Partners, Quantity Surveyors: George Cawthorne & Co. LONDON Commodity Quay Client: St Katharine-by-the-Tower Limited Consultant Architects: William Gray International (UK). Structural Engineers: Taywood Engineering Limited. Mechanical and Electrical Engineers: Taywood Limited. Quantity Surveyors: Baker, Williams and Smith, Prime Contractor: Cable and Wireless PLC. For MOD/FE, UK. Engineers Structural: Alan Marshall Partnership. Mechanical and Electrical: Williams, Sale Partnership. Quantity Surveyors: Baker, Williams and Smith, Prime Contractor: Cable and Wireless PLC. For MOD/FE, UK.

fall

CONSTRUCTION SPENDING



Contracts

	Residential	Other
1980	116.0	38.7
1981	122.7	40.5
1982	121.6	41.5
1983	121.5	41.5
1984	120.8	40.0
1985	120.6	38.7
1986	119.4	38.9
1987	115.2	40.4
1988	120.0	41.2
1989	120.3	40.0

Adjusted annual rate.

Source: Construction Systems.

trans- costs of construction: offering interest rate.

construction costs rose 1.5 per cent, the best

years, according to McGraw-Hill's Construction Systems.

The survey of new contracts and sub-contracts noted construction advances of only 1.5 per cent in the Pacific

Mountain states and in the south-eastern states. Elsewhere, New York saw only

modest gains in construction in 1985.

Similarly, the rate did not show a

rise in the Pacific or in the south-eastern states. Elsewhere, New York saw only

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International Construction 4

The UK

Switch to privately-funded projects

TWO OF the most exciting developments of the year for Britain's hard-pressed contractors were the Government's decision to allow private funding for a £50m tunnel under the English Channel and a £200m bridge over the River Thames.

The Channel Tunnel will be built by the Eurotunnel group, a consortium of 10 of the largest construction companies in Britain and France. It is the largest privately-funded infrastructure project in Europe.

But the decision to allow private funding for the Thames crossing at Dartford in Kent—to relieve congestion in the existing tunnels now that the M25 round London is complete—is as significant in its implications.

In the past the Government has refused to allow private finance for major infrastructure projects. Some 90 per cent of civil engineering work has been publicly funded.

Combined with restricted public spending on roads and sewers and bridges, this refusal to allow private funding meant that UK contractors have become chronically short of traditional civil engineering work.

They had also become very frustrated that they were unable to use their entrepreneurial skills. The downturn in public sector work in the UK has been dramatic. The value of new public sector orders—other than housing—obtained by contractors fell from £7bn in 1973 to £3.5bn in 1985 in constant 1980 prices. Public sector housing orders, which provided a major part of many contractors' workload, fell over the same period from £2.3bn to £850m.

And the outlook for traditional publicly funded work in the UK is little better.

In a forecast of the prospects for 1987, the National Council of Building Materials Producers predicted that public sector non-housing orders, which fell in value by 5.6 per cent in 1985 and showed only 1 per cent growth in 1986, would show no growth at all next year.

Public sector housing orders, which fell by 11.5 per cent in 1986 and showed only 1 per cent next year, said the BMP.

The upshot of this cut in public spending has meant tender lists have lengthened to the point at which the Federation of Civil Engineering Contractors quotes a record of 46 companies competing to build one small highway roundabout in Wales.

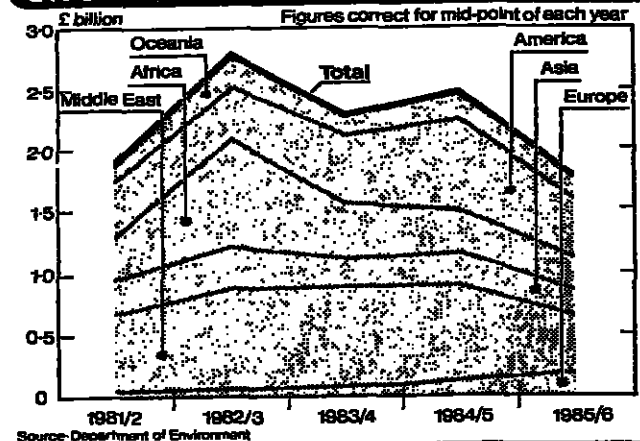
An average of 23 companies now compete for each public sector civil engineering contract, says the Federation, and between 9 per cent and 12 per cent of its members consistently have no civil engineering work on their books.

Hence the enthusiasm for the Dartford crossing decision if, as the contractors hope, it opens up new possibilities for a hard-pressed industry.

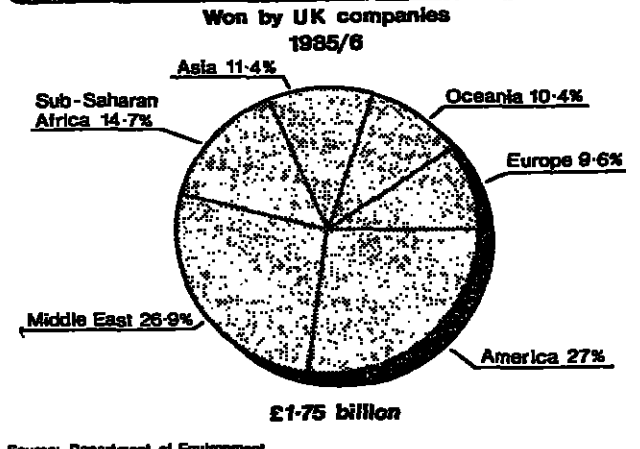
The Government's decision to allow private funding marked a major reversal of policy. It was the first time that the Government had involved the private sector at the start of a major new road project, not only in designing but also in financing.

Previous attempts to fund

UK COMPANIES' OVERSEAS CONTRACTS



NEW OVERSEAS CONTRACTS



Source: Department of Environment

infrastructure projects privately—notably Tarmac's attempts to build a seven-mile stretch of road in the west Midlands in 1984—had failed. They founded on two principal objections: that the higher cost of raising private sector funds outweighed the benefits of accelerating the road building programme; and that their cost would still nominally have to be met from the Public Sector Borrowing Requirement if the private backers failed.

The approval for Dartford marks a change of policy that will give the Government an extra bridge, and extra jobs. It will need up to 5,000 man years of employment in the hard-pressed steel production areas of north-east England, as well as building the bridge.

It will also give the Government a chance to test the benefits of using private sector management for a major infrastructure project at a time when great emphasis is being placed on building and replacing publicly funded roads and motorways.

For the contractors, the major benefit is the hope that it could open up other opportunities. They are already looking at the possibility of building a privately-funded bridge across the River Severn to augment the existing overloaded bridge, and of a barrage to harness the river's tidal power.

Since any company hoping for an upturn in traditional public sector work in the UK is likely to be disappointed as long as a Government committed to restraining spending remains in

power, hoping for more privately financed infrastructure projects is one solution. Turning their mind to other growth areas is another, and for the UK's contractors, international contracting is not one of them. The value of international construction contracts by UK companies was £1.75bn in the year ended March 1986.

This is a decrease of £70m—or 29 per cent—on the previous year, according to the UK's Export Group for the Construction Industries. This blames much of the downturn on insufficient overseas aid given by the Government.

But there are some bright areas. Contractors are concentrating on buoyant building sectors in the UK and on other activities: such as mining. This now accounts for 44 per cent of Costain's profits, for instance.

While traditional civil engineering is in eclipse, other sectors have shown strong growth. Private sector housebuilding, which accounts for more than 40 per cent of the profits of George Wimpey, Britain's largest construction company—is booming. More houses were being built in 1986 than any year since 1973 and another record year is predicted for 1987.

In the wake of the Big Bang and on the back of steady growth in real incomes, commercial building has also boomed. The value of orders for building new offices and shops grew by 12 per cent in 1986 and is predicted to grow by a further 12 per cent in 1987.

UK construction output

	1985	1986†	1987†	1988†
HOUSING:				
Public (£m)	751	665	690	550
Private (£m)	17.5	11.5	10.0	8.5
Total (£m)	2,968	3,265	3,395	3,380
% change	-4.8	+2.5	+4.5	-0.5
% change	-7.7	+5.5	+2.0	-1.5
OTHER NEW WORK:				
Public non-housing (£m)	3,396	3,430	3,430	3,395
Industrial (£m)	5.6	1.9	—	—
Commercial (£m)	2,702	2,350	2,235	2,235
% change	+14.8	-13.0	-5.0	—
% change	3,365	3,770	4,268	4,475
% change	+1.9	+12.0	+12.0	+6.0
Total other new work (£m)	9,463	9,550	9,585	10,105
% change	+4.0	+1.0	+3.5	+2.0
Total new work (£m)	13,182	13,470	13,880	14,035
% change	+0.4	+2.0	+3.0	+1.0

Source: Building Materials Producers.

Housebuilding (000s)

	1985	1986†	1987†	1988†
STARTS:				
Public	33.6	30	26	24
Private	161.8	175	185	180
Total	195.3	205	211	204
COMPLETIONS:				
Public	39.1	30	28	28
Private	149.6	160	170	168
Total	188.7	190	208	196

Source: Building Materials Producers.

As Mr Philip Beck, chairman of Mowlem, put it: "The latter national field is in such a difficult state that we find the main opportunities for big projects are in the UK, with privately funded projects." He quoted the Dartford Crossing, for which his group unsuccessfully tendered for, and Canary Wharf as £3.8bn office scheme being promoted in London's docklands.

Mr G. Ware Travelstead, a US developer wants to build a "Wall Street on Water," a 12.5m sq ft office extension of the City of London in the derelict Isle of Dogs.

"I want to create an architectural park that will be not just a major financial centre but a place where people will come in 100 years to see work representative of the finest masters of the 20th century," he says.

And all that on a site you can walk the length of in 10 minutes," Mr Beck says. Mr Travelstead estimates that the civil engineering infrastructure of roads, parks, piling and construction platforms for the £8.5m it proposes will add another £450m to the £2.5bn cost.

This illustrates another major trend in the industry, reported by the Federation of Civil Engineering Contractors. It has found that the only buoyant ingredient of its members' workload is the civil engineering required to put in roads and foundations for large office developments, shopping centres and housing estates.

John Gray



Sir Nigel Brookes, chairman of Trafalgar House, plays a key role in Eurotunnel's efforts to raise its image.

Eurotunnel Costs and Financing

COSTS	
Construction and equipment costs (September 1985 prices)	£3,595
Provision for additional works	£1,169
Overheads and other costs to commencement operation ..	£,588
Inflation charge	£,536
Interest	£,857
Total	£7,745
FINANCING	
Equity:	
Already issued to founder shareholders	£,046
Placing with international institutions	£,206
Public offer for sale	£,743
Total equity	£,995
Interest receivable on cash balances	£,040
Loans drawn from main facility	£,490
Total	£,735

Leaves £200m undrawn from main loan facility with a standby facility agreed with banks for further £50m.

A model of the proposed Canary Wharf development in London's Isle of Dogs

Channel Tunnel

Formidable hurdles still lie ahead

THE CHANNEL Tunnel represents one of the world's greatest construction projects. But will it ever be built?

Plans to link Britain and France by a 31-mile rail tunnel have been beset by problems ever since the two countries' governments granted the concession in January to build and operate the tunnel to a consortium of British and French banking and construction groups.

Eurotunnel, in spite of the governments' backing, has struggled to establish its credibility with major investment institutions, crucial for

plans to raise up to £1bn in share capital.

Both governments insist that the project must be entirely funded by the private sector. In October, Eurotunnel only just managed to scrape together the £200m it had planned to raise in an international share placing. This has raised doubts about the consortium's ability to raise £700m in a much larger share offer next summer.

Agreements with about 40 international banks for more than £250m in loans and standby credits are tied to the success of the share sale. If next summer's issue fails, the loan agreements would be in jeopardy.

Eurotunnel takes a different view. It says that in achieving its target of £200m it has cleared one of its most difficult hurdles. It argues that some of the factors which reduced investor confidence in the issue should have been removed by next summer.

The most important of these is the political uncertainty that still surrounds the project, particularly in Britain. Parliament is considering the Channel Tunnel Bill and still has to ratify the treaty to be signed with France.

There are also fears that a British general election could intervene before the project gets underway. A Conservative victory might create a delay but would leave the Channel Tunnel scheme intact. Labour has indicated that it would want to reconsider the project and would probably order a public inquiry.

Eurotunnel says that most of these uncertainties, including possibly the timing of the election, should be resolved by the time of the £750m issue prior to starting the main construction of the tunnel in autumn next year.

Shares will for the first time be available to the public, after which Eurotunnel will seek a listing for its shares on the London and Paris stock exchanges.

The project is, therefore, entering what is probably its most critical phase. The public needs to be convinced that Eurotunnel has the management capacity to attract the finance it requires and also the ability to build and operate one of the world's most ambitious transport projects.

It is here, rather than the political arena, that the battle will be won or lost. A key figure in Eurotunnel's efforts to improve its image is Sir Nigel Brookes, chairman of Trafalgar House, the construction, property, hotels and shipping group, who has recently been appointed a non-executive director of the consortium.

Sir Nigel had earlier supported a road and rail scheme rejected in favour of Eurotunnel's proposals.

The consortium has also rearranged its responsibilities among its financial advisers, creating a clear order of seniority among the advising and arranging banks. It felt that the equal status of advisers in the run-up to the October placing had complicated

decision-making and involved the consortium in too many lengthy meetings when its management was under

strength. Robert Fleming, the British merchant bank, and Banque Indosuez of France have been appointed the principal advisors while there have been a series of new appointments to strengthen Eurotunnel's management team.

On the political front things are progressing slowly but not unsatisfactorily for Eurotunnel. The parliamentary select committee hearing evidence on the scheme has finished a report which left the main elements of the Channel Tunnel Bill intact.

The Bill is now being considered by a separate standing committee which, judging by its composition and the evidence of the first few hearings, is unlikely to make changes which would seriously jeopardise the project.

Meanwhile, the first contracts have been placed as Eurotunnel gears up for the start of the main construction next year. These include a £13m order for cement to build precast concrete linings, a £6m order for two tunnel-boring machines with Howden Grosvener Tunneling and a £12m order for rack-and-pinion adhesion locomotives with Hunslett of Leeds.

The main construction contract has been placed with the 10 British and French construction groups which helped found the consortium. They are: Balfour Beatty, Costain, Tarmac, Taylor Woodrow, Wimpey, Bouygues, Dumez, Societe Auxiliaire d'Entreprises, Societe Generale d'Entreprises and Spie Batignolles.

At least 30 per cent of the construction work, however worth £2.6bn at 1985 prices, must be placed with other companies.

EEC legislation also requires that any subcontract worth more than Ecu 1m (£700,000) must be put out to international tender and advertised in the official Journal of the European Community.

The UK Department of Trade and Industry has established a small team of civil servants to advise companies and try to ensure that as much of this work as possible goes to Britain.

It is the first time that such a team has been set up to support a single project and underlines the importance the UK government attaches to the tunnel and the jobs it is likely to create during the six years of construction.

By the middle of last month Transmanche Link, the construction arm of Eurotunnel, had sent out 99 tenders for contracts in the UK and 18 in France. The volume of orders involving construction equipment, cement and aggregate, and ultimately the sophisticated electronic signalling and rail-way equipment, will steadily increase as construction gets under way.

But more than Eurotunnel must complete the main funding. There is still a lot of work to be done.

Andrew Taylor

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Bouygues' expansion continues

THE appetites of the Bouygues construction group have become gargantuan. In the last 12 months through a series of acquisitions and diversification moves, Mr Francis Bouygues, the founder and chairman of the French group, has turned his company into what he claims to be the world's largest construction company.

Bouygues expects its sales this year to total as much as FF46bn (£4.9bn) following its take-over of Sreg, France's second largest construction company. But if that were not enough, Bouygues has acquired a 34 per cent stake in Spie Batignolles, a major rival French civil engineering company controlled by the French Schneider group. Indeed, Mr Bouygues has made it clear he wants close collaboration with the rival, although Schneider and Spie have indicated they did not wish to become absorbed in the Bouygues empire.

The Sreg and subsequent Spie moves reflect Bouygues' efforts to expand diversifying into new fields but at the same time consolidate its position as a leading international construction and civil engineering group. Its new diversifications include a joint venture with the

Tapis group in the consumer battery market and the acquisition this autumn of one of the leading Parisian department stores Aux Trois Quatres.

Bouygues is also keen to develop a presence in the new deregulated French broadcasting market and has announced intentions to invest up to FF500m to acquire a stake in TF1, the French national television channel due to be privatised by the government next year.

At the same time, Bouygues has continued to develop its international construction and civil engineering businesses. The company is one of the main French partners together with Spie Batignolles in the consortium to build the twin-bore tunnel across the Channel. Indeed, Bouygues played an extremely active role in promoting the Eurotunnel scheme during the competition for the fixed-link contract.

In the UK, Bouygues has also entered a joint venture with Trafalgar House, one of the fixed link competitors, involving water treatment and distribution to Britain's publicly-owned water industry.

Bouygues and Trafalgar House have indicated that they would seek to collaborate on other worldwide projects.

In spite of the recession in the French building sector and the slump in new large international construction orders, Bouygues has managed to perform better than most of its domestic competitors, thanks to the scale and diversified nature of its businesses. However, the French construction and housing market appears to be making a tentative recovery. The French conservative government is attempting to revive this key sector of the



Mr Francis Bouygues, founder and chairman of the French construction group which bears his name: sales this year heading for £5bn

domestic economy by increasing fiscal incentives for home ownership and construction.

Rationalisations and restructurings at several other large French construction groups have also started to bear fruit, with the industry in general now looking in better shape. This has also been reflected by the return to favour on the Paris Bourse of several construction company shares.

The Government has also continued to give active support to large French construction and civil engineering companies to win a fair share of the new declining number of major new

international contracts. Spie, for example, recently won an order with a Japanese consortium to construct a \$675m gas pipeline in India.

The deal, one of the few big pipeline projects since the collapse of oil prices, broke new ground in soft loan financing.

Indeed, France for the first time extended a monobloc loan instead of the traditional mixed treasury and commercial credits used by France for export financing. Such a loan has advantages for the contracting country, and groups under one issue the traditional mixed-credit package.

The Indian deal also reflects the interest Bouygues is showing for Spie. Its pipeline laying business would complement Bouygues' offshore businesses which were expanded when the group took over the main offshore activities of the French Amrep oil concern after it was forced to file for bankruptcy. Spie's strong electrical businesses would also reinforce those of Bouygues.

As a tribute to his own success, Mr Bouygues has built himself a FF500m headquarters near Versailles. Surrounded by parks and fountains, the project represents Bouygues' corporate Versailles.

His latest acquisitions and diversifications include offshore drilling equipment and construction in the US. Water distribution, electrical system businesses, real estate and the sale of residential property by catalogue, construction and civil engineering, not to mention retailing and television broadcasting.

The question many financiers in France are now asking themselves is when and where will he stop expanding.

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Frederick Fund Limited					International Specialty Fund			
FD Ins HM1726, Hamilton, British	8/29/47	7447			10a, Rydman Road, Lunenburg			(332) 406 20
HAW Sec B	5/8/48	8.30			and Specialty	516.17		

Swedish Crown	35.5302																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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Molybdenum Ltd 4	(22.70)			Nickel Br	26	Korbin	22
Energy Unit Ltd	-	56.75	+0.01	Morgan Grenfell	26	Pto T Zinc	62
Alloy Transact Div 1	(39.55)	22.50					
Minerary Fuel Containers Ltd	-	-					
Japan Ford Ltd 2	(17.48)	-	+0.28				
Pacific Fund Dist 12	(20.95)	60.81	2.77				

A selection of Options traded is given on the London Stock Exchange Report Page.

Money Market Bank Accounts

	Green	Net	Gr Equiv	Int Cr
Adams & Co. plc				
22 Charlotte St, Edinburgh EH2 4DF	01-225 405	031-225 8484		
	7.50	10.80		
Alcock House				
30 City Road, ELY1 2AY			01-638 6070	
Treasury A/c	10.20	7.60	11.10	
High Int, Chichester	10.20	7.60	11.10	
High Int, Dm, G5,000	10.20	7.60	11.10	
Allied Arab Bank Ltd				
97-101 Cannon St, London, EC4N 5AD		8.25	01-293 9111	
High Int, Chichester	11.20		12.20	
Bank of Scotland				
30 Thamesmead St, EC2P 2DH		7.60	01-428 8060	
High Int, Chichester	10.20		11.10	
Barclays Prime Account				
P.O. Box 123, Northampton			0604 252971	
High Int, Chichester	10.00	7.50	10.80	

17	Demand Acct	101.50	7.25	11.50	QF.
	Charterhouse Bank Limited				
	1 Paternoster Row, EC4M 7DH.			01-248 4000	
18	Saving	10.575	7.76	11.32	Mkt
	U.S. Dollar	5.575	4.02	5.76	Mkt

50	Threepenny Ltd ECSP 20.25		01-628 8060
	Money Mkt Cheese A/c	7.50	01-628 8060
	Local & General (Mileage Migrants)		
	Highway, H/W, Gas		01-686 9211
	High Int Dep Act	0.90	01-626 5211
	Lloyds Bank PLC		
71	Leatherside St, London EC3P 3BS		01-626 1500
	Highway Cheese Account	0.00	7.30 1st
	Leatherside North Central PLC		
73	Stretton St, W1A 3QH		01-409 3434
	Highway, H/W, Gas	7.75	20.91
5	M & S		
	M & S (H&M) Victoria Rd, Chesham		0245 26426
	N.I.C.A. (EC 500+)	0.12	7.50 01-628 Daily
	Midland Bank plc		
	Box 2, Southfield		0742 526655
	High Int Dep Act	0.97	10.75
	EC 500+	0.30	7.70 11.34 0r
	N.I.C.A. (Mileage Migrants)		

66 Cannon St, EC4N 3AE	01-236 1425
Moorgate, Accr. 1025	7.6d 21.11 3-min
Phillips & Drew Trust Ltd	
120 Moorgate, London EC2M 6XP	01-628 9771
High Im Chg Accr. 10425	7.9d 21.58 0p

Special Acc.	10.00	7.68	10.70	Min
Over 100,000	12.00	7.68	11.70	Min
Over 1,000,000	12.00	7.68	11.70	Min

West & Burgess Ltd
 The Manxover, Plymouth PL1 2SE 0252 2240 41
 High Rise Offices 0113 01 1201 1202 01
 Wimblesley & South West Finance Co Ltd
 114 Newgate St, London EC1A 7AA 01-406-9485
 High Rise Offices 0113 01 8411 1201

NOTES— **CRR** = rate to rise from current to current rate of
 interest; **CR** = current rate of interest; **CRR** = Current
 Rate, expressed in basic rate (current) + current annual
 rate. **Inv** = frequency interest doubled.

NOTES
 Prices are in pence unless otherwise indicated and these
 denominated 3 with no profit after to U.S. dollars. Yield
 % (shown in text column) allow for all buying expenses.
 Prices of certain other insurance listed plans subject to
 the terms, conditions and exclusions of the respective
 contracts. **T** = Today's rate; **C** = Yield based on offer price.

TRADITIONAL OPTIONS

Bowditch	32	TTI	46
Brts Aerospace	42	TSS	8
Brts, Gen	17	Tesco	36
Burton Oil	26	Trans EMU	42
Cadbury	17	Trust House	15
Charter Coast	24	Turner Newall	18
Comm Union	24	Unilever	148
Cornfields	26	Wickes	36
CNFC	17	Wellcome	17
Gen Accident	75	Property	
Gen Electric	15	Brts Land	16
Globe	85	Land Securities	30
Grain Mkt	48	MAEP	92
GUS W	85	Peacoby	24
Guardian	75	Pls	
GKN	24	GOM	31
Hawson Tel	18	Brts Patroleum	58

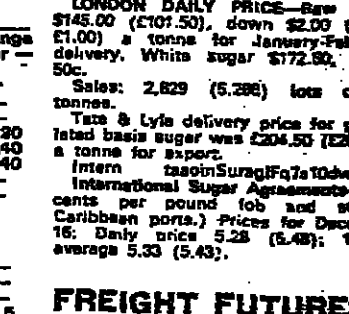
ICI	75	Burmah Oil	32
Ingersoll	69	Charterford	4
Ladbrokes	32	Premier	3 1/2
Legal & Gen.	28	Shell	65
Lex Service	32	Tricorontal	8
Lloyds Bank	38	Uthmaniyah	17
Lucas Inds.	46	Witbank	1
Morris & Sparrow	18	Cons Gold	12
Nicklson Bkr	26	Leamso	22
Morgan Grenfell	26	Rio Tinto Zinc	62

A selection of Options traded is given on the London Stock Exchange Report Page.

Opec faces failure on output cuts

	Clean	High	Low
June	45.20	45.20	45.75
July	45.20	45.20	45.75
Aug	44.20	44.20	44.20
ORANGE JUICE 15,000 lb., cents/lb.			
	Clean	High	Low
Jan	121.45	121.80	120.60
Feb	121.45	121.80	121.25
Mar	124.75	124.80	123.25
Apr	125.20	125.20	124.20
May	125.20	125.20	124.20
June	125.20	125.20	124.20
July	125.20	125.20	124.20
Aug	125.20	125.20	124.20
PLAINTAIN 10 trays or 100 lbs., cents/tray			
	Clean	High	Low
Jan	472.1	472.5	470.5
Feb	472.1	472.5	472.5
Mar	472.1	472.5	470.5
Apr	472.1	472.5	470.5
May	472.1	472.5	470.5
June	472.1	472.5	470.5
July	472.1	472.5	470.5
Aug	472.1	472.5	470.5
SILVER 5,000 Troy oz., cents/oz.			
	Clean	High	Low
Dec	528.2	528.5	526.5
Jan	528.2	528.5	526.5
Feb	527.1	—	—
Mar	525.5	526.0	524.5
Apr	525.5	526.0	524.5
May	525.5	526.0	524.5
June	525.5	526.0	524.5
July	525.5	526.0	524.5
Aug	525.5	526.0	524.5
Sept	525.5	526.0	524.5
Oct	525.5	526.0	524.5
Nov	525.5	526.0	524.5
Dec	525.5	526.0	524.5
SUGAR NO. 11 "A" 112,500 lb., cents/lb.			
	Clean	High	Low
Jan	5.71	5.75	5.60
Feb	5.71	5.75	5.60
Mar	5.71	5.75	5.60
Apr	5.71	5.75	5.60
May	5.71	5.75	5.60
June	5.71	5.75	5.60
July	5.71	5.75	5.60
Aug	5.71	5.75	5.60
Sept	5.71	5.75	5.60
Oct	5.71	5.75	5.60
Nov	5.71	5.75	5.60
Dec	5.71	5.75	5.60

	Close	High	Low
Jan	47.20	47.95	47.10
Feb	47.20	47.95	47.10
Mar	47.20	47.95	47.10
Apr	47.20	47.95	47.10
May	47.20	47.95	47.10
June	47.20	47.95	47.10
July	47.20	47.95	47.10
Aug	47.20	47.95	47.10
Sept	47.20	47.95	47.10
Oct	47.20	47.95	47.10
Nov	47.20	47.95	47.10
Dec	47.20	47.95	47.10
1986	47.20	47.95	47.10
1987	47.20	47.95	47.10
1988	47.20	47.95	47.10
1989	47.20	47.95	47.10
1990	47.20	47.95	47.10
1991	47.20	47.95	47.10
1992	47.20	47.95	47.10
1993	47.20	47.95	47.10
1994	47.20	47.95	47.10
1995	47.20	47.95	47.10
1996	47.20	47.95	47.10
1997	47.20	47.95	47.10
1998	47.20	47.95	47.10
1999	47.20	47.95	47.10
2000	47.20	47.95	47.10
2001	47.20	47.95	47.10
2002	47.20	47.95	47.10
2003	47.20	47.95	47.10
2004	47.20	47.95	47.10
2005	47.20	47.95	47.10
2006	47.20	47.95	47.10
2007	47.20	47.95	47.10
2008	47.20	47.95	47.10
2009	47.20	47.95	47.10
2010	47.20	47.95	47.10
2011	47.20	47.95	47.10
2012	47.20	47.95	47.10
2013	47.20	47.95	47.10
2014	47.20	47.95	47.10
2015	47.20	47.95	47.10
2016	47.20	47.95	47.10
2017	47.20	47.95	47.10
2018	47.20	47.95	47.10
2019	47.20	47.95	47.10
2020	47.20	47.95	47.10
2021	47.20	47.95	47.10
2022	47.20	47.95	47.10
2023	47.20	47.95	47.10
2024	47.20	47.95	47.10
2025	47.20	47.95	47.10
2026	47.20	47.95	47.10
2027	47.20	47.95	47.10
2028	47.20	47.95	47.10
2029	47.20	47.95	47.10
2030	47.20	47.95	47.10
2031	47.20	47.95	47.10
2032	47.20	47.95	47.10
2033	47.20	47.95	47.10
2034	47.20	47.95	47.10
2035	47.20	47.95	47.10
2036	47.20	47.95	47.10
2037	47.20	47.95	47.10
2038	47.20	47.95	47.10
2039	47.20	47.95	47.10
2040	47.20	47.95	47.10
2041	47.20	47.95	47.10
2042	47.20	47.95	47.10
2043	47.20	47.95	47.10
2044	47.20	47.95	47.10
2045	47.20	47.95	47.10
2046	47.20	47.95	47.10
2047	47.20	47.95	47.10
2048	47.20	47.95	47.10
2049	47.20	47.95	47.10
2050	47.20	47.95	47.10
2051	47.20	47.95	47.10
2052	47.20	47.95	47.10
2053	47.20	47.95	47.10
2054	47.20	47.95	47.10
2055	47.20	47.95	47.10
2056	47.20	47.95	47.10
2057	47.20	47.95	47.10
2058	47.20	47.95	47.10
2059	47.20	47.95	47.10
2060	47.20	47.95	47.10
2061	47.20	47.95	47.10
2062	47.20	47.95	47.10
2063	47.20	47.95	47.10
2064	47.20	47.95	47.1

[illegible]

July	810-618	615	522
Oct.	714-719	---	61
Jan.	712-712	---	719
Apr.	780-766	---	700
July	860-660	---	800
Oct.	753	---	7
SFL	200.5	---	7

Turnover: 30.5 (128).

Soviet tea supplies low

Shortages also arose from the establishment of Chinese houses increased. Pravda said this had led to the price of tea would rise. Efforts are underway to increase demand and raise quality.

Coffee has almost disappeared from shops because the price rose and Moscow is spending hard currency.

	Yard's prices	Yard's prices	Yard's prices
Feb.	127.1-128.0	—	—
April	127.0-127.5	0.45	128.0
June	127.5-128.0	1.55	128.0-128.5
August	128.0-128.5	1.55	128.0
October	128.1-128.5	0.95	—
Dec.	128.5-129.0	0.75	—

Sells: 139 (390) lots of 20 tonnes.

RUBBER

PHYSICALS — The market opened quiet and with no activity noted, closing quiet, reports saws and pens. Closing prices (buyers): SpR 4.50p (same); Jan 62.50p (same); Feb 2.75p (same). The Kuala Lumpur to prices (Malaysian cents a kilo): RS 21 218.5 (same) and SMR 20 197 (1983).

FUTURES—Index 658, Jan 862-872, Jan-March 567-577, April-June 677-687, July-Sept 583-586, Sales: Nil.

MEAT COMMISSION—Average stock prices at representative markets:
 GB—Cattle \$1.72p per kg lw (−5.4)
 GB—Sheep 214.97p per kg aat d (+0.82)
 GB—Pigs 78.31p per kg (+.02)
 GB—AAPP 98.67p per dw (−0.26).

SUGAR

PARIS—(FFr per tonne): March 11/1154, May 1190/1195, Aug 1232/1237, Oct 1265/1272, Dec 1300/1312, Mar 1357/1360.

Coffee has almost disappeared from shops because the price rose and Moscowites to spend hard currency on important items, a Soviet magazine has said.

EUROPEAN OPTIONS EXCHANGE

US bonds slightly firmer

[illegible]

281	6.20	39	8.40	"
45	9.60	—	—	"
—	—	—	—	"
32	32	—	—	"
—	—	—	—	"

Apr. 87		July 87		
162	19.50	32	25	FL526.50
143	12.50	61	18.50	FL85.30
7	1.40	—	—	FL116.50
301	2	—	—	FL156.80
237	5.50	20	6.60	FL73.20
56	4	—	—	FL89.20
212	7.80	50	9.70	
303	5.90	—	7	
27	3.70	—	—	
31	3.70	—	—	
89	5.20	—	—	
—	8.30	—	0.20	

16	14.50	—	—	FL252
38	5.50	—	9	—
38	4.40	10	5.30	FL49.20
45	3.70	15	5	—
33	4.20	—	—	FL177.50
90	2.20	26	4.30	FL44.20
174	4.80	4	5.80	—
182	2.20	8	3.40A	FL41.70
52	8.20	99	8.60	—
83	3.30	5	5.60	FL83.40
132	4.10	5	5.60	—
223	2.30	80	—	FL43.60
91	1.60	18	2.30	—
375	4	63	5.40	FL210.40
375	5.90	36	9.50	—
4	3.20	—	—	FL95.90
119	24.50	1	30	FL518

C=Call	P=Put
TRADING RATES	
%	%
11	11
12.45	11
11	11
11	11
11	11
11	11

Trust	11	Northern Bank Ltd.	11
Bank	*11	Norwich Gen. Trust	11
ar Bk	11	PA Factors, Int'l (UK)	11½
ne	11	Practical Trust Ltd.	12
	12	R. Raphael & Sons	11
est & p/c	11	Rothschilds' Grantee	11½
Ltd.	11½	Royal Bk of Scotland	11
on. Sec.	11	Royal Trust Bank	11
Corp.	11½	Standard Chartered	11
Ltd.	11½	Trustee Savings Bk.	11
ing & Co.	11	UDF Mortgage Exp.	\$12.25
& P's	12	Ward Bk of Kuwait	11

United Mizrahi Bank	11
Wespac Banking Corp	11
Whiteaway Ltd	11½
Yokubora Bank	11
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deposits 6.59% 1-month	7.03%
Top Tier—£2,500+ at 3 months	
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% Call deposits £1,000 and over	
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Stock	Price	% of	Div
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153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851																																																																																																																																																					

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6	-917	-918	-919	-920	-921	-922	-923	-924	-925	-926	-927	-928	-929	-930	-931	-932	-933	-934	-935	-936	-937	-938	-939	-940	-941	-942	-943	-944	-945	-946	-947	-948	-949	-950	-951	-952	-953	-954	-955	-956	-957	-958	-959	-960	-961	-962	-963	-964	-965	-966	-967	-968	-969	-970	-971	-972	-973	-974	-975	-976	-977	-978	-979	-980	-981	-982	-983	-984	-985	-986	-987	-988	-989	-990	-991	-992	-993	-994	-995	-996	-997	-998	-999	-1000
179	158	157	156	155	154	153	152	151	150	149	148	147	146	145	144	143	142	141	140	139	138	137	136	135	134	133	132	131	130	129	128	127	126	125	124	123	122	121	120	119	118	117	116	115	114	113	112	111	110	109	108	107	106	105	104	103	102	101	100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	-11	-12	-13	-14	-15	-16	-17	-18	-19	-20	-21	-22	-23	-24	-25	-26	-27	-28	-29	-30	-31	-32	-33	-34	-35	-36	-37	-38	-39	-40	-41	-42	-43	-44	-45	-46	-47	-48	-49	-50	-51	-52	-53	-54	-55	-56	-57	-58	-59	-60	-61	-62	-63	-64	-65	-66	-67	-68	-69	-70	-71	-72	-73	-74	-75	-76	-77	-78	-79	-80	-81	-82	-83	-84	-85	-86	-87	-88	-89	-90	-91	-92	-93	-94	-95	-96	-97	-98	-99	-100	-101	-102	-103	-104	-105	-106	-107	-108	-109	-110	-111	-112	-113	-114	-115	-116	-117	-118	-119	-120	-121	-122	-123	-124	-125	-126	-127	-128	-129	-130	-131	-132	-133	-134	-135	-136	-137	-138	-139	-140	-141	-142	-143	-144	-145	-146	-147	-148	-149	-150	-151	-152	-153	-154	-155	-156	-157	-158	-159	-160	-161	-162	-163	-164	-165	-166	-167	-168	-169	-170	-171	-172	-173	-174	-175	-176	-177	-178	-179	-180	-181	-182	-183	-184	-185	-186	-187	-188	-189	-190	-191	-192	-193	-194	-195	-196	-197	-198	-199	-200	-201	-202	-203	-204	-205	-206	-207	-208	-209	-210	-211	-212	-213	-214	-215	-216	-217	-218	-219	-220	-221	-222	-223	-224	-225	-226	-227	-228	-229	-230	-231	-232	-233	-234	-235	-236	-237	-238	-239	-240	-241	-242	-243	-244	-245	-246	-247	-248	-249	-250	-251	-252	-253	-254	-255	-256	-257	-258	-259	-260	-261	-262	-263	-264	-265	-266	-267	-268	-269	-270	-271	-272	-273	-274	-275	-276	-277	-278	-279	-280	-281	-2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

Long Astor	342	+7	12.9
Flint Tech. Sch.	170	-	12.5

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WIFE--Continued[illegible][illegible]

...and other official magazines for 1963.
 (1) *Shirley's*, cover and 10 pages based on prominent women.
 (2) *Figures*, includes the *Top Ten* figures, 21 pages.
 (3) *Women*, as an *entire* issue, as an *entire* distribution.

REGIONAL & IRISH STUDIES
 The following is a selection of Regional and Irish studies published in Irish currency.

<p>Irish</p> <p>Vol. 20c</p> <p>Irish 5a</p> <p>Irish 10c</p> <p>Irish 25c</p> <p>Irish 50c</p>	<p>68</p> <p>218</p> <p>47</p> <p>71</p> <p>216</p> <p>76</p> <p>2</p>	<p>Irish</p> <p>11a & 12b</p> <p>13a & 14b</p> <p>15a & 16b</p>	<p>297a</p> <p>297b</p> <p>297c</p>	<p>Fla. 13a/1972c</p> <p>America</p> <p>SPY 1972c</p> <p>Canada</p> <p>Dublin 5a</p> <p>Mal. 10c & 11c</p> <p>Irish 10c</p> <p>Irish 10c</p> <p>Irish 10c</p>
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"Recent Issues" and "Rights"
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							1985-88			Source Comparison	
	Dec 17	Dec 18	Dec 19	Dec 20	Dec 21	Dec 22	High	Low	Last	1985-87	1985-88
Industrials	1,818.21	1,828.19	1,822.81	1,832.28	1,828.86	1,823.87	1,888.87	1,682.25	1,888.87	41.25	1,888.87
Transport	828.88	823.85	828.18	834.77	841.12	846.31	886.74	858.97	868.74	27.00	871.74
Utilities	218.87	212.40	208.96	208.84	218.94	212.23	218.15	188.47	218.15	18.85	218.15
Trading net	-	157.04	148.28	128.87	135.88	138.87	28.86	122.11	28.86	18.85	18.85
							Dec 12	Dec 5	Nov 28	Year Ago (Approx)	
Ind. Div Yield %							3.81	3.58	3.81	4.28	
STANDARD AND POORE											
							1988			Source Comparison	
	Dec 17	Dec 18	Dec 19	Dec 20	Dec 21	Dec 22	High	Low	Last	1985-87	1985-88
Industrials	238.24	258.88	278.14	238.37	238.18	237.18	282.71	228.48	232.71	3.88	232.71
Composites	247.88	258.84	248.21	242.26	245.17	258.86	278.83	238.08	227.11	4.88	232.71
							Dec 10	Dec 3	Nov 26	Year Ago (Approx)	
Ind. Div yield %							3.94	2.98	2.98	3.48	
Ind. P/E Ratio							17.88	18.22	17.88	14.88	
Ind. Div. Yield %							7.82	7.84	7.84	8.48	

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Continued from Page 5

Paris moved lower again under the influences of a higher Bank of France money market intervention rate and end-of-month profit-taking.

Among electronics, Thomson-CSF lost FFr 40 to FFr 1,600 following news of its planned share offering. Matra, which is handing over control of its watchmaking activities to Seiko of Japan, eased FFr 5 to FFr 2,415.

Among the few advances, Avions Dassault gained FFr 30 to FFr 1,350 after reports of a jet fighter purchase by the French Defence Ministry.

Millan pursued Tuesday's upturn as corporate news provided a spur. Montedison gained L75 to L2,935 following Peruzzi's plan to increase its stake in the chemicals group IFI, with higher profits, added L450 to L27,550.

Olivetti, which has bought the Italian economic news wire service Radiocor, was steady at L12,700.

Stockholm was steady or narrowly mixed at the close with trading boosted by a slight drop in credit market rates. The Veckans Affarar all-share index closed at 888.9 after 885.3 on Tuesday.

Helsinki was mixed near peak levels. Rauma Repola, the shipbuilding and offshore group, was steady at FM 21. It has bought a majority stake in Osel Group of the UK.

	Dec. 27	Dec. 10	Dec. 13	Dec. 12	1986 H/gh	Low
AUSTRALIA All Ord. (1/11/86) All Ord. Excl. (1-1/80)	1458.8 755.2	1448.7 751.1	1458.1 751.2	1437.7 751.3	1455.6 (17/72) 753.5 (27/00)	1819.8 (0/1) 481.1 (22/1)
AUSTRIA Greditakt Aktien (10/12/84)	210.45	231.51	221.32	231.75	255.64 (3/24)	228.58 (3/5)
BELGIUM Brussels BE (1/1/84)	4085.64	4084.42	4049.96	4028.57	4151.69 (8/12)	2768.51 (15/1)
DENMARK Copenhagen SE (3-1/83)	192.14	192.18	(u)	183.48	250.70 (18/4)	188.20 (11/1)
FINLAND Helsinki Cent. (10/1)	(u)	430.4	438.7	437.5	450.4 (16/12)	258.5 (2/1)
FRANCE CAC General (5/11/82) 1st Indendce (4/11/82)	418.0 (u)	412.4 188.8	414.8 185.3	412.5 185.4	412.4 (15/78) 165.8 (16/12)	287.8 (2/1) 101.1 (2/1)
GERMANY FAZ Aktien (1/11/85) Commerzbank (1/12/83)	(u) 2851.7	(u) 2854.1	675.85 3435.8	676.25 3379.9	728.58 (2/1) 3770.4 (7/4)	548.92 (22/7) 1782.4 (22/7)
HONG KONG Hang Seng Bank (3/1/84)	2411.08	2440.08	2442.4	2482.28	2467.12 (11/12)	1558.84 (19/8)
ITALY Banca Com. Ital. (1/87)	884.84	881.72	870.74	877.18	908.20 (20/8)	654.87 (24/1)
JAPAN Nikkei (10/5/40) DOW JSE New (4/1/88)	19497.8 12485.23	19323.1 12574.49	1968.05 15680.55	1968.05 15680.55	19558.25 (25/6) 15835.35 (1/1)	19910.0 (21/1) 10220.40 (2/1)
NETHERLANDS ANSP-CBS General (1/87) ANSP-CBS Indust (10/1)	289.2 277.8	292.4 290.5	294.0 290.5	288.1 294.4	301.0 (5/9) 303.5 (10/8)	240.4 (5/5) 234.0 (2/3)
NORWAY Oslo SE (4/1/82)	561.11	581.74	585.19	585.34	492.81 (7/8)	531.61 (5/1)
SINGAPORE Straits Times (10/12/86)	890.0	890.32	885.85	889.13	940.94 (2/11)	585.34 (28/4)
SOUTH AFRICA JSE Gold (28/3/78) JSE Indust (26/5/78)	(u) (u)	(c) (c)	(u) (u)	1817.0 1584.3	1817.0 (7/9-3) 1419.0 (12/11)	1194.1 (5/14) 1019.5 (2/1)
SPAIN Madrid SE (10/1/85)	304.10	303.82	302.80	299.81	294.10 (17/12)	100.85 (5/1)
SWEDEN Jacobson & P (5/12/56)	2447.05	2444.87	2464.85	2470.4	2827.78 (7/11)	1728.57 (2/1)
SWITZERLAND SuisseBankDpn (3/12/85)	588.1	588.1	588.5	584.0	625.5 (8/1)	487.2 (4/8)
WORLD M & M. Capital Intl. (10/1/70)	—	353.7	354.4	353.7	355.6 (1/8)	248.9 (5/1)

== Saturday December 13, Japan Nikkei (c), TSE (c).
 Base value of all indices are 100 except Bourses, 185=1,000, JSE Gold=250.7, JSE Industrial=294.3, and Australia, All Ordinary and Metals=100.
 NYSE, NY Composite, Standard and Poors-100, All Corporate Composite and Metals=1,000. Toronto indices based 1975 and Montreal Portfolio 4/1/82.
 * Excluding bonds. * 400 Industrials plus 40 Utilities, 40 Financials and 20 Transports. * Closed. * Unavailable.

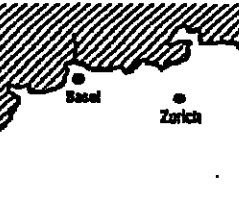
TOKYO - Most Active Stocks
Wednesday, Dec 17, 1986

Stocks	Closing Price	Change on Day	Stocks	Closing Price	Change on Day
Nippon Ind.	22.50	1.158 +21	Tokai Denso	11.20	0.20 +2
Yamaha Ind.	11.50	0.10 +1	Yohoku Gas	11.20	1.140 +20
Shimizu	12.25	1.180 +40	Tokyo Mar & Fm	10.75	0.820 +10
Shimizu	11.50	1.180 +40	Mitsubishi	7.80	1.190 +20
Shimizu	11.50	1.180 +40	Shimizu	8.70	1.520 +20

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A map of Switzerland with a hatched background. Four cities are marked with dots and labeled: Basel in the north, Zurich in the northeast, Lucerne in the south, and Geneva in the southwest.

Nasdaq national market, closing prices

[illegible]

Chief price changes

(in pence unless otherwise indicated)

LONDON (Continued)				FALLS	
RISES					
Beecham	430	+ 14	Chemring	815	+ 35
Body Shop	737	+ 30	Convey Pet.	111	+ 8
Bullough	319	+ 18	Fluoro	338	+ 10
Central Nurseman	700	+ 25	Glasco	610 1/4	%
			Hillsdown	228	+ 8
			Hogg Robinson	350	+ 12
			Not. Brick	283	+ 18
			TI Group	469	+ 6
			Tr Int. Cap.	485	+ 10
			Vic. Carpets	135	+ 4
			WPP	875	+ 28
			Janter	48	- 5
			Lowell (V.I.)	379	- 14
			Mauld Brew.	400	- 34
			Mercant House	303	- 12
			Pentland Inds.	470	- 18
			Yule Catto	343	- 5

FALLS 48

U.S. House	379	-14
U.S. Senate	400	-34
House	303	-12
Senate	470	-18
Total	245	-5

Continued on Page 4

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LAMEX COMPOSITE CLOSING PRICES

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FINANCIAL TIMES

WORLD STOCK MARKETS

WALL STREET

Oils suffer worst in downturn

WITH many investors beginning to unwind their futures and options positions ahead of Friday's contract expiration date, stock prices fell yesterday, writes Roderick Oram in New York.

In contrast, bond prices were little changed in light trading as the revised third quarter GNP met market expectations. The Dow Jones industrial average closed down 17.85 points at 1,918.31 with half the loss coming in the last hour. The New York Stock Exchange composite index fell 1.31 points to 141.56 on volume of 145.8m with declining issues outweighing rising by a ratio of more than two-and-a-half to one.

Among blue chips, American Express eased 5/8 to \$59, AT&T rose 5/8 to \$27 1/4, General Electric lost \$1 to \$86 1/4, IBM fell 1 1/4 to \$126 1/4, Minnesota Mining and Manufacturing lost 3/4 to \$115 1/4, Procter and Gamble was down 1/4 to \$78 1/4 and Sears Roebuck lost 5/8 to \$41 1/4.

Oil stocks moved sharply lower as crude oil futures prices fell in the wake of Opec's continuing inability to agree on production cuts. Exxon lost \$1 to \$71 1/4, Chevron lost 1 1/4 to \$48 1/4, Texaco declined 5/8 to \$33, Amoco was off 1/4 to \$32.

\$66 and Atlantic Richfield dropped 3 1/4 to \$59.

Honeywell, down 5/8 to \$63 1/4, said it would report a loss for 1986 after taking a \$300m charge in the fourth quarter from transferring its computer interests to a joint venture between it, NEC of Japan and Bull of France.

Lear Siegler, a West coast industrial group, jumped \$1 1/4 to \$89 1/4 after it agreed to a management buyout at \$92 a share, apparently ending a long saga of failed bids over recent months from Wicks and AFG Partners.

The agreed takeover of InterFirst by RepublicBank, bringing together two of the largest bank holding companies in Texas, pushed down share prices of both companies. RepublicBank fell \$2 1/4 to \$19 and InterFirst slipped 5/8 to \$4 1/4, both on heavy volume.

General Motors lost \$1 1/4 to \$68. It said it disagreed with the sharply reduced earnings forecasts made by a leading auto industry analyst. The other two leading vehicle makers were mixed. Ford Motor gained 5/8 to \$57 1/4 while Chrysler fell 5/8 to \$39 1/4.

Pan Am was again among the most active stocks, falling 5/8 to \$4 1/4 on volume of almost 2m shares.

Against a background of generally strong bookings for the Christmas holidays other airline stocks performed better than Pan Am. AMR, the American Airlines parent, rose 3/4 to \$57 1/4, United parent, rose 3/4 to \$57 1/4, CXC International, a group which recently paid greenmail to Mr Ronald Perelman's investment group to thwart a hostile takeover bid, advanced 1 1/4 to \$80 1/4.

Manville fell 5/8 to \$1 1/4. The building and forest products group's reorganization plan under which common shareholders stake would be severely diluted was approved by a bankruptcy court judge.

Henley Group, a collection of businesses spun off earlier this year by Allied Signal in the largest US initial public share offering, rose 5/8 to \$22 1/4. Allied, down 5/8 to \$42 1/4, said it was considering selling its 15.6 per cent stake in Henley.

Bond prices were little changed on the day in light and featureless trading. The 7.50 per cent benchmark Treasury long bond added 1/8 of a point to 10 1/4 at which it yielded 7.37 per cent.

Three-month Treasury bills rose four basis points to 5.82 per cent, six-month bills gained five basis points to 5.82 per cent and year bills edged up two basis points to 5.58 per cent.

The Federal Reserve supplied liquidity to the market for the third day running by making overnight system repurchases.

The Fed funds rate remained on the high side, however, at around 8 per cent, up sharply from 6 per cent at the opening.

Yesterday's auction of \$10.28bn of two-year notes brought a yield of 6.31 per cent on the 6.25 per cent coupon securities.

EUROPE

Corporate news offers inspiration

LOCAL corporate and interest rate moves provided the only inspiration in Europe yesterday and most houses ended lower or little changed in often thin trading.

Frankfurt had a firm start but share prices slipped back later to end close to Tuesday's levels in fairly low turnover. The Commerzbank index, calculated at mid-session, added 4.0 to 2,057.1.

After Tuesday's rally, end-of-year apathy and an absence of any significant new trends kept investors away again.

Only corporate news played an influential role as the troubles at Thyssen Stahl took the rest of the steel sector down along with engineering stocks. Thyssen lost DM 9.80 to DM 133.70 and Hoechst fell DM 6.80 to DM 118, both lows for the year. In the engineering sector, Mannesmann was DM 2.50 down at DM 178.50 and MAN dropped DM 6.50 to DM 198.

Cars saw Daimler finish steady at DM 1,240 ex-rights, the day's low. The company said it expected 1988 profits similar to last year. VW ended DM 2.30 up at DM 436.50 after reaching DM 441 at one stage, but BMW eased DM 5 to DM 585.

Retailers were unchanged or easier after their spurt early in the week.

Bonds rose in another quiet session on the back of a small increase in US Treasury bond prices in London trading.

The Bundesbank sold DM 39m worth of paper after selling DM 27m on Tuesday.

Amsterdam eased amid continuing concern over a possible interest rate

MADRID continued on its record run yesterday with a fresh 0.45 gain in the Stock Exchange index to a peak 204.10 as foreign buyers concentrated funds on banks.

Mr Manuel de la Concha, bourse chairman, said that much of this year's record market gains were due to overseas investment and good corporate profitability.

Net profits for 4,000 major companies have doubled to over \$2bn as interest rates fell and as a healthy economic outlook developed, he said. Foreign turnover on the bourse is expected to exceed \$4.2bn against \$3.9bn last year with Britain the dominant investor country with \$771m.

Yesterday Banca Bilbaos rose 4 percentage points to 1,308 per cent of nominal value while Vizcaya jumped 7 points to 1,597 per cent. ERT among chemicals firmed 2 points to 294 per cent while Petromed surged 25 points to 755 per cent.

Constructions and communications, however, displayed some weakness.

rise. Sentiment was also cautious in advance of the IMF's choice of a new managing director, with Dutch Finance Minister Onno Ruding one of the two candidates.

Internationals went with the trend, Phillips easing FL 1 to FL 43.80 and KLM down FL 1.30 to FL 41.70.

Zurich was narrowly mixed in thin trading with only corporate movements having an impact. Brown Boveri and Autophon rose after plans for a joint radio venture, with the former adding SFr 5 to SFr 1,825 and the latter SFr 100 to SFr 8,350.

The planned US curbs on imports of machine tools, which Switzerland is opposing, had limited impact with Georg Fischer steady at SFr 1,820 and Cerikon-Bühler off SFr 30 to SFr 1,365.

Brussels was active on the last day of the trading account, closing mixed after some position-squaring.

In a generally higher bank sector, Société Générale closed BFf 40 up at BFf 3,485 after news of a new D-Mark bond issue and plans for a listing on the Frankfurt bourse.

TOKYO

Institutions trigger profit-taking

AFTER a strong start, share prices turned down in Tokyo yesterday, dampened by growing investor concern over their high levels, writes Shigeo Nishitoku of Jiji Press.

The Nikkei market average which shed 234 points by mid-afternoon ended down 85.30 at 18,847.77. Volume totalled 553m shares compared with Tuesday's 612m. Declines outnumbered advances 532 to 301, with 166 issues unchanged.

The market made a strong start, spurred by Wall Street's continued advance but institutional profit-taking in blue-chips and large-capital stocks triggered concern over high price levels.

Investor buying enthusiasm was also depressed by a record-breaking margin buying balance and rumours that the Finance Ministry will soon unveil a plan to tax capital gains.

In the bearish picture, many blue chips fared well, supported by the yen's weakness against the dollar and prospects for an improvement in export profitability.

Hitachi, which surged to a record high on Tuesday, fell Y20 to Y1,150, hit by institutional selling, although it topped the active list with 23.95m shares changing hands.

Some speculative issues firmed. Tobishima rose Y20 to Y965 and Morinaga Y10 to Y791. However, Japan Line, a deficit-ridden shipping group which was bought heavily the previous day on the strength of reports on its rehabilitation programme, came under profit-taking pressure, ending Y3 lower at Y96. Japan Line was the second busiest issue, with 14.34m shares.

Fuji Photo Film and Sharp rose Y150 and Y40 to records of Y3,720 and Y1,180, respectively. Sharp was the third most active stock with 12.49m shares. Kirin Brewery jumped Y40 to Y1,630.

Among large-capital stocks, Nippon Kasei declined Y11 to Y220 and Kawasaki Steel Y13 to Y171.

Nippon Oil, which had been popular on prospects for a recovery of the oil market, lost Y60 to Y1,390.

Bond prices fluctuated sharply, mirroring uncertainty over crude oil price trends.

AUSTRALIA

Gold paves way to fresh peak

FURTHER SUPPORT for golds and fresh buying of industrials pushed Sydney to another peak and left the All Ordinaries 7.1 higher at 1,453.8.

The active gold sector was attributed to the federal government decision to leave intact the tax-free status of domestic gold producers while a stronger Australian dollar buoyed industrials on the hopes that domestic interest rates will fall.

Central Norseman led golds higher with its 60-cent jump to AS\$15.00 as Bannison closed 30 cents ahead at AS\$9.80 and Western Mining scored a 18-cent gain to AS\$7.60.

Oils retreated in line with the uncertainty over the Opec talks: Santos lost 13 cents to AS\$4.05 and BHP dipped 2 cents to AS\$7.80.

The media sector was active ahead of Mr Rupert Murdoch's consolidation of his grip on the South China Morning Post. News Corp lost 10 cents to AS\$18.80, Herald & Weekly Times picked up 10 cents to AS\$12.30 and Queensland Press reversed the losses of the previous day with a 60-cent gain to AS\$16.80.

HONG KONG

DOMESTIC investors stepped up their selling in Hong Kong and forced the Hang Seng Index 29.80 lower to 2,411.08 and the Hong Kong Index 19.43 down to 1,535.39.

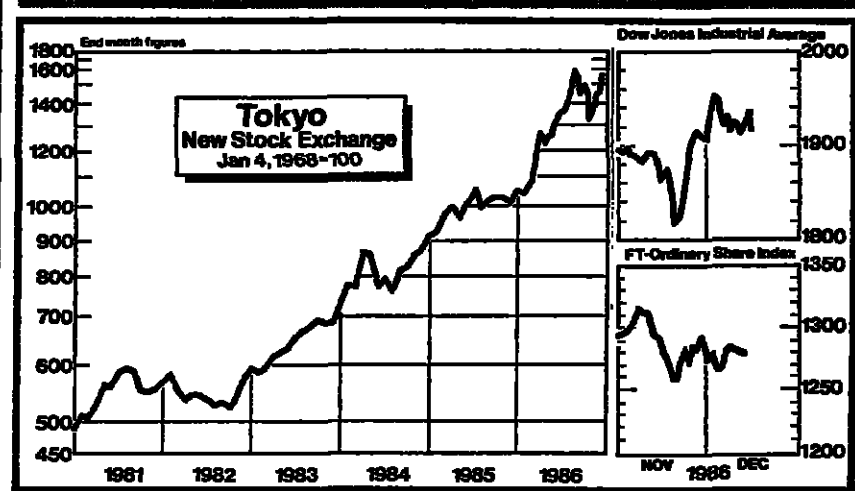
Interim profits from HK Wharf and World International contained no surprises although a redeployment of assets was considered disappointing. The former shed 20 cents to HK\$3.95 and the latter 2 1/2 cents to HK\$3.62.

SINGAPORE

SINGAPORE bargain hunting injected some life into Singapore and boosted the Straits Times Industrial index 9.71 to 890.03. Local and foreign institutions kept to the sidelines ahead of the forthcoming holidays although volume increased to 12.4m shares from Tuesday's 8.1m.

Faber Merit, which announced a steep loss for the year, dropped 5 1/2 cents to 33 1/2 cents on 751,000 shares.

KEY MARKET MONITORS



STOCK MARKET INDICES				
	Dec 17	Previous	Year ago	
NEW YORK				
DJ Industrials	1,918.31	1,936.16	1,544.50	
DJ Transport	829.58	833.33	719.57	
DJ Utilities	210.67	212.40	173.16	
S&P Composite	247.56	250.04	210.65	
LONDON				
FT Ord	1,276.1	1,279.6	1,104.6	
FT-SE 100	1,836.3	1,837.9	1,365.4	
FT-A All-share	817.34	818.18	687.66	
FT-A 500	883.99	884.86	731.76	
FT Gold mines	315.9	316.8	250.1	
FT-A Long gilt	10.53	10.53	10.44	

TOKYO				
	Dec 17	Previous	Year ago	
Nikkei	18,847.77	18,932.99	13,128.9	
Tokyo SE	1,563.23	1,574.49	1,046.35	

AUSTRALIA				
	Dec 17	Previous	Year ago	
All Ord	1,453.8	1,446.7	980.5	
Metals & Mins	715.2	701.1	474.8	

AUSTRIA				
	Dec 17	Previous	Year ago	
Credit Aktien	230.49	231.51	234.77	

BELGIUM				
	Dec 17	Previous	Year ago	
Belgian SE	4,065.54	4,064.42	2,887.81	

CANADA				
	Dec 17	Previous	Year ago	
Toronto	1,948.50	1,965.2	2,107.0	
Metals & Mins	3,028.40	3,030.6	2,884.3	
Montreal	526.35	528.34	142.07	

DENMARK				
	Dec 17	Previous	Year ago	
SE	—	192.16	232.78	

FRANCE				
	Dec 17	Previous	Year ago	
CAC Gen	410.00	418.40	253.4	
Ind. Tendances	—	163.80	95.1	

WEST GERMANY				
	Dec 17	Previous	Year ago	
FAZ-Aldien	680.06	—	618.58	
Commerzbank	2,057.10	2,053.10	1,836.5	

HONG KONG				
	Dec 17	Previous	Year ago	
Hang Seng	2,411.08	2,440.68	1,720.45	

ITALY				
	Dec 17	Previous	Year ago	
Borsa Com.	694.84	681.72	444.79	

NETHERLANDS				
	Dec 17	Previous	Year ago	
ANP-CBS Gen	280.20	280.40	241.2	
ANP-CBS Ind	277.30	280.30	224.5	

NORWAY				
	Dec 17	Previous	Year ago	
Osto SE	361.11	361.74	397.80	

SINGAPORE				
	Dec 17	Previous	Year ago	
Straits Times	890.03	880.32	638.45	

SOUTH AFRICA				
	Dec 17	Previous	Year ago	
JSE Golds	—	1,917.0	1,108.7	
JSE Industrials	—	1,384.0	1,034.1	

SPAIN				
	Dec 17	Previous	Year ago	
Madrid SE	204.10	203.62	101.12	

SWEDEN				
	Dec 17	Previous	Year ago	
J & P	2,447.08	2,444.67	1,713.10	

SWITZERLAND				
	Dec 17	Previous	Year ago	
Swiss Bank Ind	—	589.10	558.0	

WORLD				
	Dec 17	Previous	Year ago	
MS Capital Int'l	355.7	354.40	253.20	

COMMODITIES				
	Dec 17	Previous	Year ago	
London				
Silver (spot fixing)	\$75.250	\$75.250	\$75.250	
Copper (cash)	\$334.00	\$333.50	\$333.50	
Coffee (March)	\$1,750.00	\$1,787.50	\$1,787.50	
Oil (Brent blend)	\$15.50	\$15.50	\$15.50	

GOLD (per ounce)				
	Dec 17	Previous	Year ago	
London	\$392.00	\$394.00	\$394.00	
Zurich	\$392.45	\$393.75	\$393.75	
Paris (fixing)	\$391.90	\$392.48	\$392.48	
Luxembourg	\$393.35	\$394.00	\$394.00	
New York (Feb)	\$394.2	\$395.10	\$395.10	

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The Reliable Airline **KLM** Royal Dutch Airlines

Continued on Page 47

FINANCIAL TIMES SURVEY

This survey is an integral part of the Financial Times and is not for sale separately.

AUSTRALIA
Golds pave
way to
fresh peak

FURTHER SUPPORT for the gold buying of industrial nations by another peak and a new series 7.1 higher at 1,434. The active gold sector was intact the tax-free sale of gold producers while a new Australian dollar buoyed interest rates that domestic interest rates.

Central Norwegian led with its 80-cent jump to 14.50 on closed 30 cents ahead at 14.20. Mining scored a 1.40 rise to 14.20.

The media sector was active. Rupert Murdoch's News Corp lost 10 cents to 1.10. News Corp lost 10 cents to 1.10. News Corp lost 10 cents to 1.10.

SPORADIC bargain hunting some life into Singapore and Straits Times industrial index 240.03. Local and foreign kept to the sidelines ahead of coming holidays although it increased to 12.4m shares from 8.1m.

Faber-Merlin, which has steep loss for the year, dropped to 33 cents on 751,000 shares.

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Mao: influence fading

WHEN THE history of post-Mao China comes to be written, 1986 could be seen as the year when Deng Xiaoping's leadership fought a decisive battle against its opponents. After last year surviving the worst economic crisis since it came to power, it has kept modernisation on the road, started new reforms and above all been seen to keep cool in the face of criticism.

In foreign affairs, it has brought the relationship with its neighbour the Soviet Union to the point where a healing of the 30-year-old split has begun to look possible. Though China responded cautiously to Mikhail Gorbachev's Vladivostok speech in July, trade and other contacts with the USSR are rising.

Today, Peking's foreign policy is to maintain good relations on the widest front so that modernisation at home can proceed undisturbed.

Deng's final and biggest problem, that of the succession, is yet to come. Even leaders of his choice (and he may not be able to choose) will have difficulty keeping the reform momentum

going, because none of them have his commanding influence. And the reform itself may, like last year, generate difficulties which will reverse the programme.

Deng made himself vulnerable in 1985 by losing control of the economy. Last year's fall in grain output, inflation and corruption scandals provided ammunition for a campaign from which he and his colleagues have emerged bruised but unbowed. But he has now kept reform on the road for eight years. Every day longer that it and he survive gives a better chance for the long run.

The moves which caused the most trouble in 1985—more freedom for the factories and price reform—were temporarily shelved but Deng has kept the ball rolling with other innovations. Political reform resurfaced in mid-summer when a press debate on intellectual freedom switched suddenly to a discussion of slackening party control.

The points raised were later dismissed as only "scholar-

views," and Deng told foreign visitors the issue would not emerge again till next year. But it is still being discussed by what many believe to be Deng's think-tank, the Academy of Social Sciences.

"We hope to make the political mechanism much more rational, with democracy and the rule of law as the moving spirit," Professor Zhao Fusan says.

"This will lead to the question, what will be the role of the party?" Professor Zhao indicated that defining it could mean establishing a "checks and balances" system, though he believed this would need years to take shape.

Even in the economy, new reforms like the sale of bonds and shares and the introduction of contract labour instead of lifelong employment have taken off. And the vigour of the private economy sector is impressive.

The free market in Lanzhou, capital of Gansu province, for example, has become a trade centre for China.

Villagers from Lanzhou's suburbs flag their privately-purch-

ased trucks hundreds of miles to Sichuan or Qinghai to buy cornmeal or fish. Traders from far-off provinces come with clothing or furniture, to sell on Lanzhou's streets. This is increasingly different from the original notion of a local farmer selling his own eggs or cabbage in the nearest city.

By Colina MacDongall

The private economy plays a key role in diminishing unemployment, China claims today it has few young people "waiting for jobs." This is not wholly true, but Peking has defused what was an explosive issue five years ago.

In spite of all this good news, Deng's problems are far from over. Even some younger men in his own leadership—Deputy Premier Li Peng, for instance—appear to favour a centrally planned, large-project-oriented Soviet approach more than Deng-type individualism. When the octogenarian leader goes, the try-it-and-see attitude which

has brought China so much benefit might go too.

Even under Deng, the political reform may not get far off the ground. It seems inconceivable that any Communist Party should willingly give up power.

The party "rectification" begun three years ago, intended to weed out the mobs who joined during the Cultural Revolution, has trickled away into an inoffensive "re-education" movement. And without political reform, which at the least would give managers and experts freedom to make decisions, economic reform will be a failure.

The much-touted legal system, though better than the vacuum which preceded it, does not provide justice as viewed in the west. The traditional notion that anyone in the hands of the law must be guilty lingers on, and there seems little chance at a trial of adequate defence. Torture by the police is widespread, according to senior law officials reported in the Chinese media.

Although the government has the economy under control,

there are underlying problems which it has not solved. The key issue of how to give factory managers more power without sending the economy off the rails remains to be solved.

If in future the reform goes badly wrong—such as producing high inflation—there could be a popular demand for a return to the old stable, if unproductive, centrally-planned system. This would be disastrous, since central planning has already shown itself incapable of meeting China's needs.

Deng is sitting on unpredictable social issues which could explode at any time. One is high-level corruption, less overt than in its 1985 heyday but still manifest even to outsiders in the way senior officials' relatives are promoted or given trips to the West. In spite of promises earlier this year to prosecute, little action has been taken.

Another issue is the divisive policy of investing where returns are greatest, in the relatively skilled and prosperous east. This is enhanced by the growing affluence of the city suburbs compared with the

deep countryside or even the pockets of unemployment in the towns.

China officially admits to 60m living in dire poverty. It is a figure made easier to appreciate after watching a half-finished plate of dumplings snatched from the table in a restaurant in central Peking and wolfed down by hungry citizens.

Perhaps most important for the long term is better education. Many millions of Chinese are illiterate. Continued ignorance will threaten the economic reform and even the proposed small measure of political change.

But senior Chinese are still arguing over the costs. The last National People's Congress saw an unresolved debate on whether to spend billions on the Sanmen Gorge hydropower scheme or on improving schools, colleges and teaching. Maybe Deng should use his last years in an effort to consolidate his reform by making sure that education gets the money it needs to turn out skilled and innovative people.

China

Deng Xiaoping's leadership has dampened last year's inflation and overheated economy. It has taken more steps towards a market-oriented system and political reform—some enterprises now sell bonds, and a trial bankruptcy law has come in. But the question of who will carry on the work after Deng still dominates.

Deng's reforms exorcise Mao



Deng: dedicated reformer

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This is the last of a series of FT China surveys published this year, and concentrates on regions and sectors not already covered. A combined reprint will be available in the New Year from: Michael Robinson, Publicity Dept, Financial Times, 10 Cannon Street, London EC4P 4BY. Price 25.

Well-spread in China



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China 2

Politics

Contradictions threaten reforms



The timing of Deng Xiaoping's departure remains an unanswered question

Politics and Foreign Policy

China, as October's compromise party resolution revealed is still divided between reformers and hard-line conservatives, even though the old demarcation lines between groups of leaders may be fading. Abroad, Peking moved towards a thaw in its dealings with the Soviet bloc and relations with Japan grew smoother.

The present policies do not have a clear theoretical basis and the party knows it," one diplomat said. "There are no guides and they realise that this will be a much greater problem when Deng goes. They will not have an established body of thought to fall back on."

Deng Xiaoping's departure date remains the great unanswered question in Chinese politics. He said this year that he would like to retire, but his comrades are encouraging him to stay on. That means he is likely to stay beyond the party congress scheduled for next autumn, an event that had been seen as a prime opportunity for reform.

ity for retirement. Chen Muhua, a well-connected state councillor, explained that the party is replacing the life tenure system with a retirement plan. "But there is a lot of work still to be done," she said. "It is necessary to have some older leaders who have rich experience."

She suggested that Mr Deng will "do what other people want," which indicates he will stay on.

The congress will still be crucial in the institutionalising of a succession scheme, and pressure will be put on the likes of Chen Yun, the senior politburo member with his own reform blueprint, to make way for younger members. President Li Xiangnan is a hot tip to retire, perhaps to be replaced by Vice-Premier Wan Li.

Madam Chen was as vague as the official party pronouncements on what the next programme of political reform will entail. There have been hints that the party's power will be redefined, but it is not clear how. The focus has been on the more modest goal of sorting out the long-standing problem of defining the conflicting roles of manager and party secretary in factories.

As a diplomat pointed out: "The party has not done much about reform apart from talk about it." But in any redistribution of power some people will have more and some will have less, and it looks like provincial party officials will have to be content with less. Some will be content while others will be inclined to prove how the arrangement under which they had more say was the better system.

Factory managers are being presented by the Chinese media as "good guys sometimes shot or killed" after often unidentified critics. Cases of false accusations against successful managers have been highlighted with the moral that these reformers are the heroes who deserve support.

However, what if a party official genuinely believes that the manager is a lack, but is reluctant to push the matter for fear of tripping over the party line? And what if the recent batch of senior appointments in the provinces produces bad eggs?

The governor of Jiangxi province was replaced several months ago amid allegations of corruption and abuse of power. If a few more of his sort fall, the wisdom of the present leadership is open to question.

The toughest questioning will come if the economic successes have allowed the leadership to take profound liberties with ideology. The Government should be pleased that the economy has grown on target, and that the trade deficit will be cut.

But at the grass roots there are murmurings of discontent over price rises and over how those who have been allowed to "get rich first" are getting richer and further ahead of the pack. Lower party officials are feeling the pinch and are not blessed with the grand vision of Peking's powerbrokers.

Robert Thomson



President Li Xiangnan (left) is tipped to retire, perhaps succeeded by Vice-premier Wan Li (centre). Senior politburo member Chen Yun will also be pressed to step down.

Tough and uncompromising climb

Profile

Chen Muhua

MADAME Chen Muhua, state councillor, member of the Politburo and Governor of the People's Bank of China, is arguably the most powerful woman in China.

She agreed to meet in one of the splendidly restored ancient buildings within the leader's compound, Zhongnanhai, inside the Forbidden City of Peking. Accompanied by 25 officials, Mme Chen looked slightly incongruous—albeit supremely confident and relaxed—in the former Imperial residence. She sat in a large chair inside an ornate canopy curtained in red velvet and decorated in gold and red, with three spectacular antique vases behind her.

She was dressed in a plain grey trouser suit, her long Chinese undergarments peeking out at the ankles, and sensible flat black shoes. Her short unstyled hair was swept off her grand-motherly face and held back with hairpins. She looked not unlike a Chinese Golda Meir—a blend of severity and kindness.

Mme Chen laughed a lot throughout the interview and she asked as many questions as she answered.

To reach the Chinese political heights achieved by Mme Chen needs a tough and uncompromising determination sustained over decades. The Chinese remain reluctant to indulge in biographical detail and her own account of her career makes it difficult to skip the odd decade here and there.

There is no doubt that she has had the right friends in the right places at the right time. She worked for Li Xiangnan, now President, when he was Minister of Finance in the 1950s and rose with him.



Madam Chen Muhua, perhaps the most powerful woman in China

Mme Chen joined the army during the war with Japan, having previously worked for the army as a civilian. About the 15 years after the war, from 1945 to 1950, she will say only that she worked for the state planning commission and liaison office of the Commission for Economic Relations with Foreign Countries. During the 1960s and 1970s she travelled widely, especially in Africa.

Mme Chen said: "I was criticised, of course, during the Cultural Revolution." But her career appears to have progressed well during that troubled period even though she refuses to give any details about it. In 1970 the Commission for Economic Relations with Foreign Countries was re-organised into a Ministry and Mme Chen was appointed Vice-Minister.

In 1972 she was deputy head of a Government delegation to

Zambia and a year later was elected to her first term as a member of the CCP Central Committee. In 1975 her stock was still high enough for her to have retained all her positions and to lead the Chinese delegation to a United Nations industrial development organisation conference in Lima, Peru.

In 1977 she became Minister of Economic Relations with Foreign Countries and was elected an alternate member of the Chinese Politburo.

Under the post-Mao leadership she continued to prosper, being appointed a Vice Premier in March 1978 and joining a delegation to North Korea led by Hua Guofeng in May. On their return she was appointed director of the Birth Planning Leading Group under the State Council.

Mme Chen retained her influence and status when Deng Xiaoping became paramount leader and last year she was promoted from Minister of Foreign Economic Relations and Trade to Governor of the People's Bank of China.

Whatever her views which enabled her to survive the Cultural Revolution, she now says she is committed to the economic reforms of Deng.

"In the past everything was controlled by the Planning Commission. This did not work," she said, returning to the department in which she used to be an official.

"Because China is so large and development is so uneven we must make a gradual transition from direct to indirect control. The reforms must be taken step by step."

She added that economic reforms could not work without the political reforms necessary to separate the party function from the government function.

"How do you do it? We haven't got the answers but I hope by this time next year the blueprint will be worked out," she said.

This was a further official indication that political reform is proving troublesome and has been on to a "next year, sometime, never" timeframe.

To achieve the target of per capita gross national product of between \$800 and \$1,000 by the year 2000, Mme Chen conceded that there would inevitably be some disparities. "Our goal is for the whole country to be rich first," she said.

What about the succession after Deng, who is now 82 and has indicated that he would like to retire? "Many people do not accept his wish to retire," she said. "Even some foreign friends do not accept it. This morning some Americans (from the New York Stock Exchange) urged him to stay on. Many people, including me, want him to stay." Mme Chen, said with a laugh.

Robin Panley

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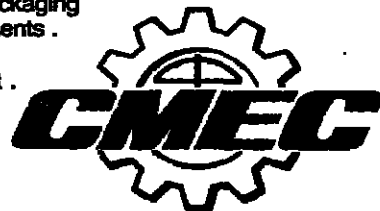
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China 3

USSR relations

Concessions to heal breach

RELATIONS BETWEEN China and the Soviet Union are closer today than at any time since the solidarity between the world's two leading Communist powers shattered in the early 1960s. After more than two decades of deep hostility that at one stage threatened to erupt into open war, opinion is divided over whether Sino-Soviet rivalry is at an end.

What is clear is that in the last 18 months there has been a flurry of top-level meetings between senior officials from Moscow and Peking, trade has soared and both sides have made concessions seemingly aimed at speeding up the rapprochement.

A series of important developments have come surprisingly fast:

• In July 1985, a five-year trade agreement aimed at boosting trade from about US\$1.3bn in 1984 to \$10bn by 1990 was signed.

• Also in July, China announced it was to reduce the number of its troops by 1m, a large number of whom seem certain to be withdrawn from the border.

• In July this year in a keynote speech in Vladivostok, Mr Mikhail Gorbachev, the Soviet leader, announced that six regiments would be pulled out of Afghanistan, suggested the possibility of a substantial troop withdrawal from Mongolia and made a clear concession over the disputed border area along the Amur River, by offering to agree to a demarcation line running along the middle of the channel. The area saw violent skirmishes between the two sides in 1983.

• In September, Mr Nikolai Talyzin, the Soviet First Deputy Prime Minister, became the highest ranking Soviet official to visit Peking in more than 17 years. The result was a decision to resume next February, after a nine-year break, talks aimed at settling the border dispute.

• In September and October, General Wojciech Jaruzelski, of Poland and East Germany, were the first leaders of countries with close links to the Soviet Union to visit Peking since the Sino-Soviet split. Such a development could not have taken place without Moscow's blessing. In addition, Peking subsequently claimed that party-to-party relations with these countries had never been broken.

• Last month the Soviet Union and China held a further round of normalisation talks at which for the first time Moscow said it was willing to discuss the thorny



Soviet leader Mikhail Gorbachev has made concessions which could ease relations with China.

Soviet pullout from Afghanistan.

Peking, they claim, is well aware that Moscow is either unwilling or unable to meet all these demands. Vietnam, for example, is a fiercely independent nation over which Moscow has only limited influence.

Afghanistan is of vital strategic interest to Moscow and a Soviet pullout seems unthinkable unless the civil war can be brought to an end and a strong regime, friendly to the Soviet Union, put in place.

Above all, the announcement of a formal resumption of party-to-party links is essential before it might be safely claimed that the world's two Communist giants have resumed normal relations, and this seems a long way off.

Peking has been careful to offset its improvement in relations with the Soviet bloc. For example, last month's resumption of formal links with the two iron curtain countries was quickly followed by the decision for the first time since 1949 to allow an American warship to visit mainland China.

US officials are now well aware that the honeymoon period when it was possible to argue that China was effectively NATO's 16th member is long gone. In future the triangular balance of power between the US, the Soviet Union and China is likely to prove both more complex and uncertain.

problem of the Vietnamese occupation of Kampuchea. China also suggested, publicly for the first time, that movement on this issue alone might unlock the door to normalisation.

Some, however, take a more bullish view. Normalisation has already taken place in all but name, they argue.

Ideology is no longer a problem. Deng Xiaoping, China's leader, and Mr Gorbachev are essentially pragmatic men. Moscow and Peking have also talked of the possibility of a summit between the countries' two top leaders. Such a meeting seems unlikely in the immediate future, but the fact that it has been mentioned publicly, albeit hedged with qualifications, is seen as a clear sign of the sharp improvement in relations between nations which together deploy a total of almost 2m troops along their 4,000-mile border.

Some senior diplomats and academics, however, urge caution in interpreting the recent flurry of activity. Continuing deep-seated mutual suspicion could prove for many years a serious stumbling block to a full normalisation of relations.

They point to public statements by Peking that relations cannot be restored until a breakthrough on the so-called Three Obstacles: a reduction of Soviet troops along the border, withdrawal of Vietnamese troops from Kampuchea and a

Richard Cowper

BENEATH THE calm exterior of China's increasingly successful efforts to establish normal relations with as many countries as possible bubbles a cauldron which continues to frustrate progress on long-standing disputes.

China wants normal relations with every state so as to concentrate fully on its internal modernisation and economic reforms. This has now produced steps towards normalising relations between Peking and Moscow: both Deng Xiaoping in Peking and Mikhail Gorbachev in Moscow desperately need external stability while they engineer tricky and sensitive internal changes.

The problems beneath this peaceful surface are severe: the troops massed along both sides of the disputed Sino-Soviet border; the Russian military presence in Afghanistan; and the occupation of Kampuchea by Vietnam, backed by the Soviet Union. Yet the Soviet and Chinese vice foreign ministers met in Peking this autumn and discussed all these problems in an apparently friendly and optimistic way.

There is still far to go but the new warming of relations has obvious advantages for both. The Russians want a new powerful ally; the Chinese want to keep their relations in balance and avoid becoming too closely tied to the US. Both want stability while they introduce sensitive and complex internal reforms. Both need major developing markets in which to expand their trade.

For the West, however, the implications, potentially at any rate, are serious. While Deng and Gorbachev talk of international peace it is not clear that future leaders on either side will take the same line, creating the possibility of further unpredictability in the region. Nor is it clear whether resolution of the Sino-Soviet border dispute would lead to the transfer of 500,000 Soviet troops from the east facing China to the east bloc's frontiers with Western Europe.

The latest moves also suggest that after more than a decade of improving relations China and the US may have gone just about as far as they can for the time being. The Chinese have become critical about aspects of US policy—central America and protectionist trade policies in particular—and the US has become more anxious that the Chinese should not find fault with the party's star but focus on the general in foreign relations.

Relations with the US remain vital, nevertheless, to China, and it is important not to overstate the extent of progress with Moscow, hopeful though this year's contacts appear. In particular, Peking will not contemplate party to party relations with Moscow until "strenuous



Japan Prime Minister Nakasone with party leader Hu Yaobang on a goodwill visit to China this year.

Foreign policy

Disputes bubble beneath calm

efforts" have been made by the Russians to resolve the Kampuchean situation.

So far Vietnam has merely indicated its willingness to leave Kampuchea by 1990, provided a neutral government can be installed excluding the Khmer Rouge.

"Deng Xiaoping would be happy to go to the USSR to meet Mr Gorbachev at any time once that problem is resolved. But it is three months since Deng publicly offered such a move, on condition Russia urged Vietnam to stop destroying Kampuchea and withdraw its troops. You have heard the silence and we see no substantial change," said Qi Huaiyuan, assistant foreign minister.

Afghanistan is another major issue dividing the two countries though the atmosphere here has been improved by Russia's token troop withdrawals.

In spite of these major hurdles the general improvement in Sino-Soviet relations has led this year to improvements in relations between Peking and the Soviet umbrella states. A treaty has been signed between China and Mongolia. Equally

significant, relations are being restored with Eastern Europe, broken since the start of Sino-Soviet dispute in 1960.

The semi-official visit this autumn by Gen. Jaruzelski of Poland followed by a full state visit by Mr Erich Honecker, East German party leader to Peking, paves the way for the restoration of party to party links throughout the East bloc, with the approval of Mr Gorbachev. Only Yugoslavia, Romania and, for part of the time, Albania have maintained party to party links with Peking during the long dispute with Russia.

It would be surprising if during 1987 there were not a constant trickle of leading East European party leaders to Peking in the wake of Mr Honecker, with the Hungarians likely to be first, followed by the Czechs and the aggressively pro-Soviet Bulgarians bringing up the rear. Once these relations are normalised Peking is expected to move towards establishing formal links with the Cuban Communist Party.

The key to all of China's feelings for the restoration of relations is to maximise the possi-

lities for bilateral trade relations and attract foreign investment and open foreign markets as an essential constituent of its economic reforms.

"We also want friendship throughout Asia. There is no question on the Chinese side, for example, that we would like to establish and develop normal relations with Indonesia which have been in difficulty since 1965. We have given signals time and time again but without success. If the time is not ripe we can wait," said Mr Qi.

This sort of quiet pragmatism is best exemplified in the approach to Taiwan and Hong Kong. Having secured an agreement over the future of Hong Kong on the basis of "one country, two systems" China is now aggressively promoting a similar line over future relations with Taiwan—so far with no success.

Taiwan is in many ways more important to the Chinese psyche than Hong Kong and some form of rapprochement remains a top priority for the Peking regime. Hong Kong and Taiwan have attained a new poignancy since economic reforms were intro-

duced because both are so obviously more entrepreneurial, rich and economically dynamic and successful than China ever has been since 1949.

Peking would rather have some form of agreement which integrates them internally than have them sit outside as examples of what non-Communist Chinese enclaves can achieve. Having negotiated an agreement over Hong Kong, the Chinese are likely to exert increased pressure for a Taiwan deal in coming years. "Taiwan is only a province of China," noted Mr Qi tersely.

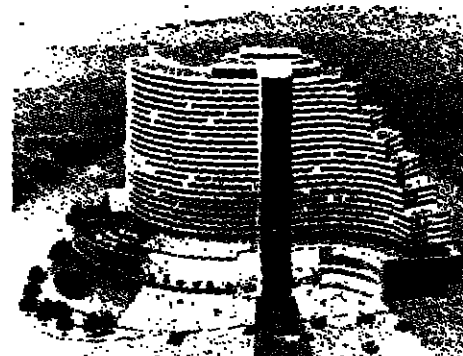
"The Chinese have discovered that they need the outside world more than the world needs them. The encouraging thing is that they are no longer afraid to admit it and are going all out for normal and friendly relations wherever they can find them. Their aim of furthering global peace through non-aligned independence and friendship might sound trite but it has a lot going for it," observed a Western diplomat.

Robin Pauley
Asia Editor

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Mongolia border

Friendship back on rails

ERLIAN IS the place where they change the railway carriage wheels on the 4,250-mile line from Moscow to Peking. The train is shunted into a long shed where China's 4ft 8½in track is embraced by the 5ft 6in wider gauge of Russia and the Mongolian People's Republic. The carriages are jacked up while an overhead crane swings the ice-covered wheels off the outer rails and drops waiting sets onto the inner.

The line through Eriian (Erenhot in Mongolian) is one of the few links between the two Mongolian regions of a common ethnic history but divided politically for more than 30 years. The independent republic of Mongolia to the north, formerly in Peking's sphere of influence, has become a Soviet buffer state since the Sino-Soviet split of the early 1960s. An indigenous population of 1.5m is aided by thousands of Soviet teachers, engineers and other civilians, and is said to be defended by five Red Army divisions.

The autonomous region of Inner Mongolia to the south, where Han Chinese today outnumber native Mongols by nearly 10 to one, is in reality just another province of China.

The break in the railway line built 30 years ago across the immense plateau of grasslands may be losing its symbolism. Overtures from Peking to Ulan Bator resulted in an agreement to establish consular relations this year. A Chinese deputy

foreign minister was received in the Mongolian capital and troupes of singers and dancers have been sent across the border.

Eriian itself, an artificial settlement of 10,000 people from all over China, has made contact with the small Mongolian town of Za Meng Wu De three miles away in the past couple of years. Hu Yaobang, general secretary of the Chinese Communist Party, visited the town in September 1984, and urged local leaders to invite an official delegation over.

"He told us Chinese and Mongolians had been friends for a long time," said Lu Ziheng, Eriian's deputy mayor. The two towns now exchange official visits on their respective national festival days.

The railway channels Eriian's local produce of sheep and goatskins, leather clothing and a small amount of chemical and mineral raw materials to the USSR and Eastern Europe. Timber, steel and vehicles come the other way. But trade remains meagre.

"We want trade between the two towns, but we have had no answer to a proposal we made in 1984," said Liu Xingming, of the local foreign affairs bureau. "The Mongolians said they wanted to ask their leaders, but the policy there is different. Ours is to open to the outside world, theirs is not to open. But relations are getting much better."

The two countries fixed their 2,850 mile border only in 1962. The following year marker posts were established and four years ago the two sides reviewed the line, adding further posts. According to local officials on the Chinese side there are no fences.

If animals wander across, or local herdsmen overstep the line, the procedure is for the border guards to fire shells in the air to attract the other's attention. The same method is used to convene a meeting. There have been no major incidents, officials say.

Eriian was opened to foreigners last year, but neither foreigners nor Chinese civilians may approach within 2 miles of the border. There is no garrison in Eriian, and civil leaders are vague both about the whereabouts and numbers of Chinese troops.

"We never see any Russian soldiers on their side," one said.

Five hours' rail journey across the steppe from Jining, the nearest (and closed) Chinese city, Eriian is truly on the road to nowhere. A broad modern avenue leads from the impressive railway station to a small park, the offices of the local "banner," or county, and out into a bare and treeless desert of scrubby grass, dotted with sheep, ponies and camels.

Either side of the main street are regular blocks of one-storey brick houses, each with its own front yard. Chimneys puff grey smoke from coal fires, and the TV serials wait to catch the programmes from Peking and Huhhot, capital of Inner Mongolia—after seven pm on working days, but both morning and afternoon on Sundays.

As well as the railway, there are a few small factories where the immigrant Chinese find employment. Apart from its



Lu Ziheng, a deputy mayor of Eriian.



Food stall at a market in Mongolia

extreme climate—the temperature can drop to minus 40C in winter—Eriian could be any small town in China. That, and the fact that dwellings and inhabitants alike face south, from where the Mongol herdsmen and their families ride into town to do their shopping and pay a visit to the cinema.

Lu Ziheng, one of five deputy mayors, talks glowingly of the town moving into a "golden age" under the influence of China's economic reforms. "People are working very hard to make this a rich and powerful city, following the instructions of the leaders of Inner Mongolia. People call this the continental bridge."

His optimism may not be misplaced. Oil was discovered in the area six years ago, and reserves of a reported 7bn barrels are about to be exploited, which could involve an oil refinery for Eriian and foreign participation. Meanwhile, the gradual thawing of relations between China and the USSR and its satellite Outer Mongolia could one day make the city more than just a strategic dot on the map where transcontinental passengers wait a couple of hours while the wheels are changed.

Christian Tyler

Reincarnation on a bike

Profile

Living Buddha

"THE Living Buddha should be here any minute," said the girl in the porter's lodge of the temple. "Ah, here he comes now," she added as a burly figure in a flat cap, jacket and trousers whizzed through the gate on a bicycle.

The Living Buddha parked his bicycle, picked up his briefcase, shook hands energetically, and showed us to his quarters on one side of the temple courtyard. A small anteroom contained three chairs and a trunk. We went through to the main room, no more than 10 ft by 6 ft, in which there was an iron bed, a desk, two chairs and a pot-bellied coal stove.

"Actually, Living Buddha is a wrong translation," he said after he had poured the tea. "It should be reincarnation of the Buddha."

Jimishirang Jiangtsuo, to give him his full Tibetan name, was two years old when he was identified as a reincarnation from among 400 children in the western Chinese province of Qinghai where he was born.

He is the 11th reincarnation to be attached to the lamaist temple of Xilitu, built during the late Ming Dynasty in the old quarter of Huhhot, capital of Inner Mongolia. The temple was ransacked by Red Guards during the Cultural Revolution and most of its precious books and devotional objects destroyed. Now it is being restored by the regional government, with help from the state.

Today, a party of school children, clutching note-books and Biro, was being shown round. Some of the boys, when they reached the statue of the Buddha himself, prostrated themselves in mock worship: the expression on the face of the head lama did not change.

There are two ranks of Living Buddhas, Jiangtsuo explained: an Inner Circle of Eight, of which there is only one in Inner Mongolia, and an Outer Circle of Twelve, actually numbering 20, including himself. He is a member of the Yellow Branch, the largest lamaist sect. (There are also white, red, black and "coloured" branches.) He recognises the Dalai Lama, who fled to northern India when the Chinese overran Tibet, as morally the head of the branch.

"But not in practice, because

he is abroad. He has done nothing for the disciples of his country."

Does being a Living Buddha make him feel different from the rest of humanity? "No," said Jiangtsuo. "I only feel the responsibility to learn as much as I can, to be knowledgeable, straight, open and honest. Those people who are aggressive or hard could not be Living Buddhas."

He is a doctor of Tibetan herbal medicine, and visits the local hospital twice a week. As a scholar, he speaks and writes Mongol and Chinese as well as his native language and has compiled dictionaries for university students.

Much of his time is spent in administration: he is an executive member of the Buddhist Association of China, secretary of the regional branch and chairman of the local one. These bodies are all under the general control of a newly-tolerant Communist Party; but, he said, the religious leaders themselves are not communists.

At the age of six, Jiangtsuo started his education in philosophy, medicine and religion at the temple of Tar in Qinghai. In 1956 he came to Huhhot to finish his education in a state school. Five years after graduation, the Cultural Revolution struck: he was sent away for hard labour at the May 7 Cadre School in a town about 200 miles west of Huhhot.



Jimishirang Jiangtsuo, called the Living Buddha

"At first I was criticised for being a Buddhist. They said Buddhism was an evil influence. But after 1969 I was called a traitor to the country and enemy of the party. All this went on until 1972, when I was rehabilitated."

The Living Buddha is married, with two sons. "According to our doctrine, a Living Buddha may marry, but (it better if he doesn't) a lama must stay celibate."

"I am not a Communist Party member, and have no wish to join any kind of party. I have two wishes. One is to be a citizen of this country and to love our country. The other is never to give up my Buddhist belief."

Most of those who worship at Xilitu temple are Mongol herdsmen who come in from the country. But the lamas say religious belief is on the increase again. The Buddhist bible prophesied a slump in worship, followed by a revival. That, says the head lama at Xilitu, was surely a prediction of the Cultural Revolution.

The Living Buddha says there are no statistics on the number of disciples. "Other religions—the Moslems, the Christians, the Catholics, make demands of their disciples, but Buddhism makes none. You can believe today and give up tomorrow."

Christian Tyler

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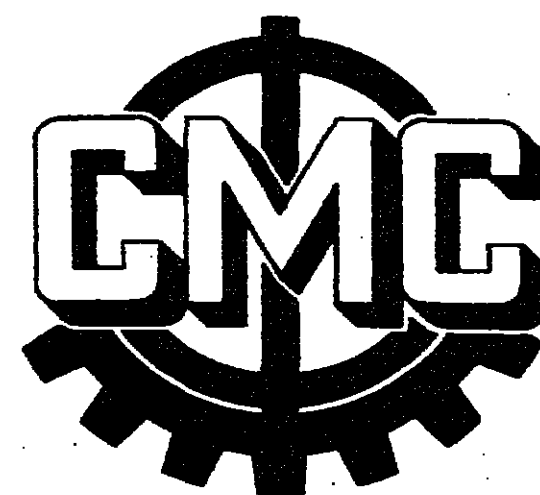
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Management

Slow progress in changing practices

MANAGEMENT IS a new concept to the Chinese. Bearing in mind the country's turbulent history this century and its Communist rulers this is hardly a surprise.

Before the late 1970s and the introduction of the Open Door policy there were no laws to provide for foreigners to do business in China. Indeed, the Cultural Revolution was a period of such turmoil that the law was all but suspended.

Many of the deficiencies and characteristics of the Chinese management style in 1986 can be traced back to Mao Zedong, who refused to compromise national unity and loyalty.

Such attitudes had obvious repercussions in the industrial enterprises. Industry had to be subservient to the nation's need; its leaders were often selected because of their ideological zeal; the individual had to accept conformity and praise was bestowed on groups, never individuals.

The effects were plainly identified by the Party Central Committee in 1984. "Enthusiasm, initiative and creativeness have been seriously dampened and the socialist economy is bereft of much of the vitality it should possess," they said.

Mao's wish for a group mentality gave China the "danwei," the organisation to which all workers owe an allegiance. It can range in size from 10 people in a small workshop to thousands in a steel plant.

Everyone who is working belongs to a danwei, which is a basic building block of the Chinese bureaucracy. A large danwei provides welfare and housing for its workforce. Workmates are, therefore, also neighbours. Privacy and independence are rare. Safety lies in conformity.

The repercussions on contemporary Chinese management style are immense. The group mentality leads to the view that anonymity is the best form of survival.

This tendency to conform, which has its roots in the centuries of a rigid peasant society, is maintained by the ever-present surveillance of the neighbourhood party committee.

The purges and recriminations of the Cultural Revolution have served to emphasise the traditional bureaucratic virtue—that he who does nothing makes no mistakes.

Chinese bureaucratic self-protection is highlighted in negotiations for foreigners. Every detail is seriously recorded, technical specifications are collected avidly. It is easy to agree on the value of obtaining information. Furthermore, the more facts the Chinese have the less the risk of making mistakes.

Foreign companies have, therefore, found that the Chinese will repeatedly request re-negotiation to ensure a fair deal and, to some extent, put off the inevitable day of decision.

Time in China does not have the same value as in the West. Taoist philosophy suggests that time travels in a circle. It makes no concession to the capitalist dogma that time equals money. Bureaucracy simply adds to the often-experienced feeling of inertia.

"They don't understand that time is money," said one foreign businessman. "It is probably their biggest problem. They're prepared to talk and talk for hours, not realising that it's money wasted."

Foreign companies have found themselves spending large sums of money and many man-hours on training their Chinese employees. Foxboro, a US electronic instruments company, spent 125,000 man-hours on training in the first three years and more than 50 US experts spent some time in China.

With such obvious differences, mixtures of Chinese and foreign management styles can cause problems. Chinese organisations are hierarchical. It is not uncommon to find organisations in which the only level at which the production department speaks to the accounting department is board level.

It can often mean that decisions which in Western organisations can be made within hours in China carry on painfully for months.

These management differences are heightened in joint ventures where the gap in understanding is worsened by the differing life-styles of Chinese and foreign executives.

Western managers are often confined to a hotel existence which denies them any social contact with ordinary Chinese.

It is also difficult for a Chinese manager to understand why his foreign colleagues have to return home for rest and recuperation when he has to work throughout the year.

Foreign executives, for their part, may have trouble in accepting the common Chinese practice of reading a newspaper and drinking tea in the office before starting the day's work.

Some management problems arise from the control still exercised by the central Government. From the founding of the People's Republic in 1949, economic and industrial management at all levels has been inextricably mixed up with politics.

Early enthusiasm in the 1950s was for the Soviet model. The Cultural Revolution reinforced central control and broke down obstacles in communicating Mao's undoubted charisma, and dogma, to the people.

Since 1976 there has been an apparent decline in such dogmatic politicising. In pursuit of "Socialist modernisation," interest in and practice of business has grown enormously.

Government spokesmen are now capable of criticising central control and refer to "mediating in enterprise affairs" and "too many authorities lorded over the enterprise." The new party line is that enterprises will become "independent and responsible for their own profit and loss and capable of transforming and developing themselves" (according to their 1984 Congress).

Part of this development is the "director responsibility system" which switches managerial responsibility away from the enterprise's Party Committee.

Analysis of six Peking enterprises shows that the results so far are mixed. Three of the enterprises had already adopted the director responsibility system while the others remained tied to the decisions of their party committees. Managers reported a relaxing of state control, but in certain key areas their power was still restricted.

These included pricing, decisions on investment levels, salaries and the number of employees.

The gap between management and working practices means that a foreign company's most basic assumptions may well be wrong. For the Chinese business is not simply business; it is friendship. Doing small favours for important officials, like helping his son to apply to a foreign university, is an important component. The Chinese prefer to do business with people they like and trust.



Workers at the Baoshan steelworks near Shanghai

A power structure run by personal vested interests is deeply entrenched. Despite the loosening of central control, the idea of a management accountable to an independently constituted board of directors is still alien to the Chinese.

When a board of directors exists, as in joint ventures, it is only able to assert itself when its members are in agreement. Such agreement between the Chinese members is likely to have been reached beforehand.

Indeed, the chief Chinese decision-makers may keep well away from the central stage. Debate can therefore be rather hollow.

Again, this is partly a result of bureaucratic self-protection. The quota system and seller's market have also affected attitudes to customers. Visitors to Chinese hotels, for instance, have observed that in place of customer service there seems to be employee service. The organisation's main task is to look after the comfort of its employees.

Poor service intrudes into the life of all Chinese. It is not, as sometimes thought, experienced only by foreigners. Buying an airline ticket in Peking can be a daunting experience for Chinese and foreigner alike. It involves a great deal of time and unceremonious shunting from window to window. More mundane activities, like making a 'phone call, can be equally irritating.

It is clear that the Chinese realise the necessity of learning different methods of management education. In 1977 there were no business schools in China. Now the intention is to train 12m managers by the year 2000.

This process is co-ordinated by the State Economic Commission (which ranks higher than a ministry). It has already set up nine special training centres which display an eclectic taste in management education. The centres at Peking, Dalian, Tianjin, Chengdu and Shanghai have European, US, Japanese, Canadian and West German involvement respectively.

They are supplemented by 78 Enterprise Management Institutions which offer relevant education and training. A notable example of the Chinese enthusiasm for education in the Management Centre for Economic Cadres in Peking. Established in 1979, the centre's aim is to train top managers for jobs in the main cities and provinces. It involves the EEC and academics from Europe's top

business schools teaching there: 20 full-time professors and up to 50 part-time instructors are employed there.

China is undergoing an important cultural evolution—not the revolution some might fear. The desire for change was perhaps most potently expressed at the 12th Party Congress in October 1984, which greatly expanded the acceptable limits of management.

According to the new policy, management is to be responsible for specifying explicitly the requirements for each work unit and the duties of each worker. The need to raise the sense of responsibility and encourages initiative, enthusiasm and creativity was accepted.

This clearly involves linking workers' pay to performance. Deng Xiaoping summed up the new attitude in a much quoted proverb: "The colour of the cat doesn't matter as long as it catches the mice."

A greater knowledge and sense of effective management goes hand-in-hand with political change. The separation of the state's economic and political functions and the slow process of decentralisation should make understanding easier. But full understanding may well lie many years ahead.

Nigel Campbell
Dr Campbell lectures in strategic management at Manchester Business School.

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Incentives reach the shop floor

Profile Shanding

HIDDEN away in the sprawl of a provincial city, the Shanding factory is China's biggest manufacturer of engineering products and also a good example of the management and logistical problems faced by Chinese enterprise in the 1980s.

Solution of these problems often makes demands on the senior manager's personal contacts. Getting suitable supplies and raw materials is often difficult and the manager must devote much time to building up and maintaining good relations with key suppliers.

Even a gift of apples from the factory orchard may help. To the Chinese such friendly acts and gifts are important. Business is transient but friendship is eternal, they believe.

Every enterprise is subordinate to a higher authority and the Shanding factory is no exception. It is answerable both to the local municipality and to the relevant government department in Peking.

Before Chinese economic reforms began these higher authorities provided the money, took the income from sales and decided all the details of the production plan. All decision-making power was concentrated in the hands of higher authority.

Until 1984, the manager had to keep track of 20 or more production targets on which he had to report regularly.

The situation is now easier and fewer reports are required. But old habits die hard. During the long period when all that mattered was meeting the production quota the Shanding factory, like many others, fell into the habit of a "10-20-70" work pattern.

Under that system 10 per cent of production is completed during the first 10 days of the month, another 20 per cent in the next 10 days and the remaining 70 per cent in the final 10.

"It need not be like that," the manager says. "But for good or for bad this is our habit. We've worked like this for two decades and change is not easy."

Although the monthly pattern is set, some changes are taking place. A system of bonuses is at last bringing some incentive to the shop floor. But their impact is often blunted by late supplies so that workers must sit round waiting for vital components.

The bonus system has become so rigid that every worker expects an extra payment of at least 10 yuan.

The Shanding factory spends less than 0.01 per cent of its turnover on marketing. The reasons are easily identified. Up to 1984 over 80 per cent of sales were allocated by the state plan. Every year the central planner organises a trade fair to which only one distributor from each province is admitted. The factory and the distributor each receive a copy of the delivery schedule.

To a large extent the management's hands are tied. The importance of quotas is such that they even advertised in the local paper when the factory had no spare parts. Customers were told that the factory was too busy meeting its quotas to supply spare parts.

Opportunities to create a long-term strategy are few. Marketing remains relatively unimportant, and the best workers usually find their way into the purchasing department where problems abound.

Even if distant markets are unconquered the management can remain unconcerned. In China's sellers' markets customers are anxious to obtain the products even if the designs are 20 years out of date.

The management would like more freedom. They identify the labour problems of recruitment and dismissal and the setting of wage levels as central concerns, for it is almost impossible to dismiss those who "eat from the iron rice bowl"—workers recruited before the end of 1985.

Nigel Campbell



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China 8

Finance and banking

Firm control taken by central bank



Tong Zengyia, vice-president, People's Bank of China

A FEW years ago China's banking system was simply a channel for state-given grants. Today, under Deng Xiaoping's economic reforms, it is learning to manage loans profitably, experimenting with inter-bank money markets, overseeing company stock and bond issues and organising a market in foreign exchange.

On the foreign side, it no longer merely finances trade. It handles forward foreign exchange transactions, decides future exchange rates for the yuan, and carries out many of the activities of banks in capitalist countries.

Early this year all these functions were put firmly under the control of Peking's central bank, the People's Bank of China, which has four specialised banks: the Industrial and Commercial Bank, the Agriculture Bank, the Construction Bank and the Bank of China, its foreign trade arm. It also has a number of financial institutions, all responsible to the People's Bank.

The People's Bank, under Mme Chen Muhua, its chairman and politbureau member, has become the most important mechanism for running China's gradually liberalising economy. It is likely to become still more powerful if its funds grow larger than the revenues dispensed by the Ministry of Finance through the Budget. According to Tong Zengyia, People's Bank vice-president at more than 100bn yuan, they may already exceed them.

The loan business, to an extent traditional even in the centrally-planned China of the past, has been a key sector in managing the economy this year. In 1985, a credit boom and consequent burst of construction and shortages caused Peking to cut loans to industry. This year factory managers have been hamstrung by shortages of cash and aggravated by the fact that banking officials do not have the training to assess worthwhile proposals.

While the credit squeeze has given Peking the drop in the

industrial growth rate it sought, the deficiencies of the banking system have meant that the real problems—cash and ignorant expansion—have been left concealed, to resume when the squeeze is lifted.

This situation has been slightly eased by the launch of interbank borrowing. Initially this was confined to five key cities—Shenyang, Chongqing, Wahan, Canton and Changzhou—but had spread experimentally to a much larger number by November.

"This makes it much easier and quicker for local factories to get loans," said Lai Shiyao, Xiamen People's Bank deputy manager. "Bank branches can lend to each other."

Further flexibility has been introduced this year by allowing banks to discount bills.

At the same time enterprises are encouraged to raise investment capital by selling bonds or shares. This system, which has been operating in a few cases for several years, has now spread to most cities in China, but with no uniformity. Permission to go public is necessary from the People's Bank, but the type of stock or bond issued varies.

Few of the "shares" sold are genuinely part of a company's equity, though in some collective enterprises they may be. When state institutions sell "shares," these are really interest-bearing bonds and the value will not change. There are some purely Chinese innovations in the system—for instance, the Tianjin Flying Pigeon Bicycle Factory's bonds carry a coupon entitling the holder to buy the normally rationed Flying Pigeon bike.

rudimentary stock exchanges have come into being this year, notably in Shanghai and Shenyang. Some share issues are sold through the banks, and a secondary market of sorts has emerged in which buyers and sellers contact one another unofficially. So far, there are few government controls. Informal foreign exchange

markets have also emerged this year. This is in response to the state's reluctance to provide dollars out of its dwindling reserves to joint ventures and other enterprises which need foreign exchange to import equipment.

The new system is meant to provide a forum for companies, with excess foreign exchange to sell at a premium. The major problem, pointed out one official in Xiamen Special Economic Zone, is that few have any surplus.

To prevent black market dealing, these "foreign exchange adjustment centres" are officially controlled by the State Administration of Exchange Control, an arm of the People's Bank.

The question of foreign exchange has dominated most of China's foreign banking activities this year. Peking's reserves, which had already dropped from nearly US\$17bn in September 1984 to \$12.6bn a year later, have since fallen to \$10bn.

Many Chinese enterprises, already short of foreign exchange and facing a severe credit squeeze, have been unable to obtain the dollars they need to import equipment and raw materials. To help out, the Bank of China has begun to issue foreign exchange certificates, which are sold to enterprises at a discount to the market rate. These certificates, which are valid for 180 days, are sold at a discount to the market rate. This could happen when the abolition of Foreign Exchange Certificates, promised early in 1986, might happen. This seemed to have been indefinitely postponed when Peking realised how difficult it would be. The FECs, originally meant to exclude Chinese from hotels and shops meant for foreigners, now circulate all over China through a black market.

The fall in foreign investment this year pushed China into borrowing more abroad. In the first half-year, Chinese institutions issued about \$800m in bonds on international markets (nearly 70 per cent of which were in Japan). China's total borrowings abroad in January-June, including commercial bank loans and government loans, came to \$2.57bn, three times the 1985 figure in the same period.

With further bond issues since then in West Germany and Singapore, China's total for 1986 will be substantial. The days when Chinese bankers lived behind their bamboo curtains now seem remote.

Colina MacDougall



The Bank of China headquarters in Peking

Shenyang

Bonds rush has masses talking

NEAR THE front door of the Shenyang Bond Exchange, an apple seller discusses the latest interest rates with her comrades. She has bought bonds worth US\$300, almost twice the annual wage of the average farmer, because she wanted to "help increase productivity and because the interest is higher than at the bank."

The coming of bonds to Shenyang, the industrial heavyweight of northern China, has become the talking point of the masses. It is said you have to queue at 2 am to be sure of getting a share of a good issue, and that the more conservative Communist cadres think the bond rush has gone too far.

Shenyang has gone further down the road of financial reform than any other Chinese city. As well as bonds, it has limited share issues, auctions of public enterprises, commercial paper, and Communist China's only bankrupt company, the Shenyang Explosion-Proof Equipment factory.

The city planned to allow another factory to go under early next year, according to Li Zhenqing, vice-director of the Collective Enterprise Bureau, which has been pushing for a bankruptcy law. He admits that the first bankruptcy in August was a "great shock" for many people: "The workers thought the factory was their mother and would always look after them."

Li says a propaganda drive has been launched to make the city's residents understand that a form of bankruptcy is necessary for the overhaul of industry, and to prepare them for the second failure—there is a list of

about 30 ailing companies from which to choose. He does admit that the first case could have been better handled.

"We have our problems. We did not arrange the workers very well, and we still have 20 or so (out of 121) who have not got jobs. We also have to improve the insurance payments for the workers," Mr Li says.

Shenyang became an important communications centre early this century after the Russians linked it to the trans-Siberian railway. Then the Japanese built up industry during their occupation of Manchuria, while the Russians looted factories at the end of the war, and then helped rebuild them after the Communists won the Chinese civil war in 1949.

Renovating the factories of China's fifth largest industrial producer became a priority in 1982, when it was realised that the city was stagnating and when a 240m yuan programme to modernise 137 industrial enterprises was undertaken. The city was also ripe for a financial overhaul.

Wang Siliang, general secretary of the System Reorganisation Department, says the city's leaders had heard that Chongqing, in the south-west, was to experiment with financial reform. The leaders demanded that Shenyang be allowed to do the same, and presented a report to Peking, which approved the application in early 1984.

Since then, the city, which has the decision-making power of a province, has concentrated on three reforms: the rental of small industrial enterprises to individual managers, bank-

ruptcy and share issues.

In late 1984, the Shenyang Power Industrial Company chose two of its subsidiaries, the Shenyang Petroleum Pump Factory and the Shenyang Axle Factory, for rental by individuals, who were invited to tender for the enterprises. In the first year of operation under new managers, profits at the factories increased by 330 per cent and 1,300 per cent respectively.

In November this year the city took the process a step further by auctioning a public enterprise, a food store, and allowing an individual to buy the stock and right to manage, though the building and land remain state property.

Two months earlier, the city had auctioned three collective enterprises, also food stores. Wang Siliang says the auctions are "creative" and designed to "motivate the rest of China."

"We will learn lessons from these enterprises and then decide what to do next," he says.

There are "opposing opinions" in Shenyang's government on the issue of bankruptcy. "I cannot say that we all hold that bankruptcy is right," Wang says. "More than 50 per cent of cadres support bankruptcy, but I cannot tell you whether it is 60 or 80 per cent."

"The people did not think it could happen. Our city has a special right, so we do not have to get approval from the central government if there is another bankruptcy. It is a motivation for other factories."

His explanation shows that the Government's reasoning behind bankruptcy is similar to that behind capital punishment, which it invokes with the motto

"Kill one to teach 100."

Experimentation began late last year when the Bureau of Engineering Industry allowed two collectives, the Shenyang Compressor Factory and the Shenyang Compressor Air Valve Factory, to issue to staff shares worth about 16 per cent and 13 per cent of assets. Wang said the Government has no plans to issue shares to the public.

"We have some ideological problems. The first thing we should do is experiment and learn from the experiences. Then we should work out the theory and put the law into place."

A sign that some within the Shenyang government are unhappy with the pace of reform was a forced change in the structure for one of the two classes of bonds issued at the exchange. One set of bonds is redeemable after two years at 9 per cent interest, while the other offers 2 per cent interest plus the chance to win a prize in a lottery.

First prize in the draws, in which 10 per cent of holders win something, was an apartment worth 20,000 yuan, but Quan Jushan, deputy manager of the Shenyang Investment Trust Company, which runs the exchange, said the Government decided that the first prize could be worth no more than 8,000 yuan.

"We do have different opinions," said Quan, who is a party member. "We should do some more work so that we can combine a good idea with good ideology."

Robert Thomson

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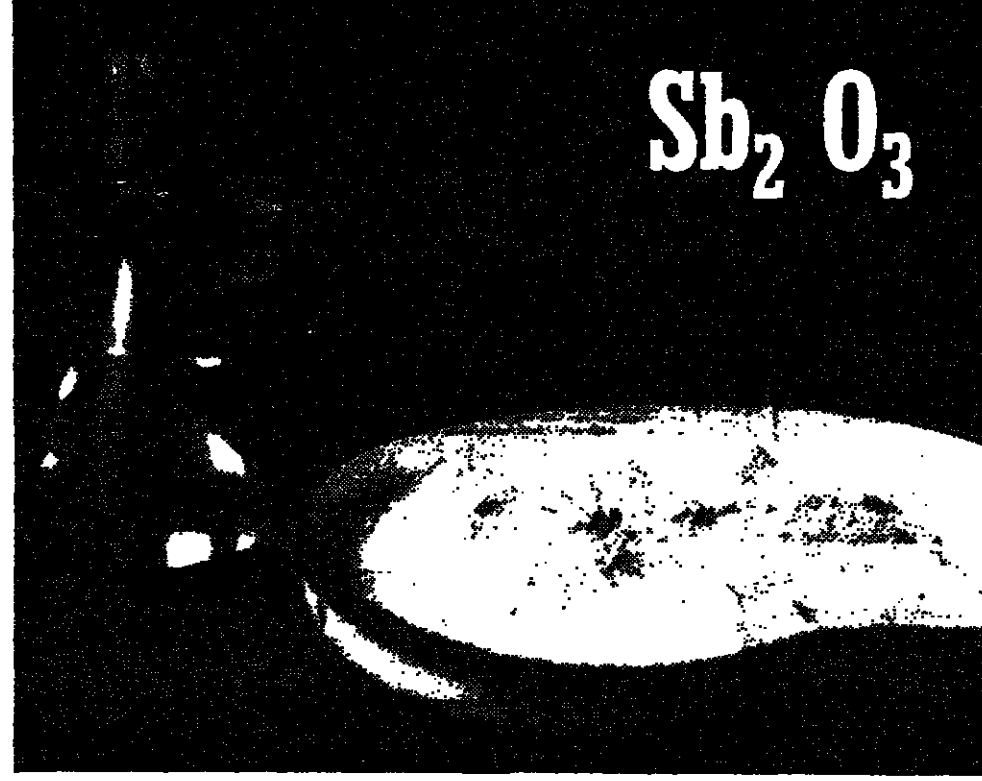
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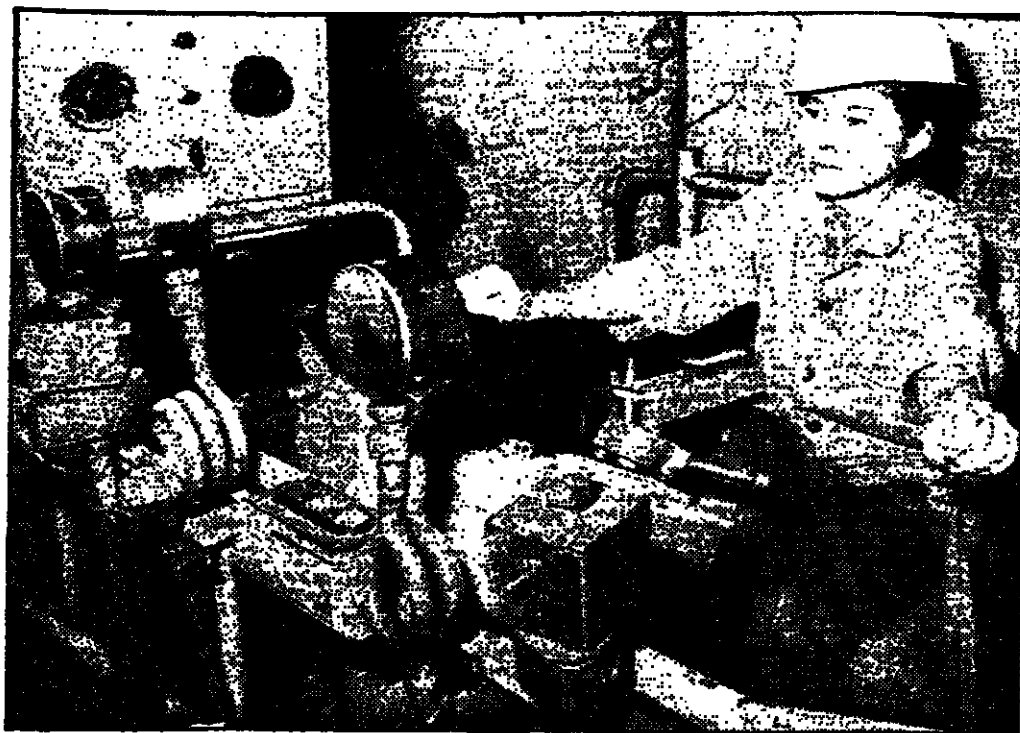
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China 9



A machine operator at the Datong locomotive factory

China's industry

Inflation shackled down

CHINA'S industry faces big problems but it has temporarily recovered from the burst of growth which caused alarming inflation and shortages in 1985.

In the first nine months of this year, the rate of growth of industrial output fell from the 1985 high of 23 per cent to 6.4 per cent. Diplomats in Peking expect this to reach 7 per cent to 7.5 per cent by the end of the year, just short of the planned target of 8 per cent.

This was achieved by applying strict financial and economic controls in mid-1985 when inflation and overspending soared. While the curb meant a substantial cutback of Peking's newly launched industrial reform policy, it succeeded in reducing the growth rate for all 1985 to 18 per cent and then to 4.4 per cent for the first quarter of 1986. Since then, expansion has picked up again.

Also on the credit side, diplomats point out that although many industries slowed production or registered a fall, output of key items like construction materials, energy and textiles showed little fluctuation.

It was the low-demand industrial and consumer goods, they say, or those with saturated markets such as small tractors

or TV sets, which collapsed.

However, Peking still has hurdles to overcome. The most crucial is how to continue the reform—essentially, giving more decision-making power to managers—and at the same time keep expansion under control. There is no sign that China's leadership knows how to do this.

Although output growth has slowed this year, investment in industry has soared again. State spending on fixed plant and equipment rose by 15 per cent in the first nine months, far ahead of investment targets. Spending on so-called "technical renovation" went up by 45 per cent, a large figure which probably conceals much new capital construction.

Peking has tried to use what it calls "indirect levers" to control the economy, raising interest rates instead of simply giving orders. But many managers borrow no matter what the cost. Factories also seem to be able to use funds earmarked for other purposes such as welfare to buy new equipment.

On top of that, this year there have been cases where managers got rid of old stocks by selling them on credit, and then borrowing from the bank on the strength of the money owed.

Peking is still faced with the uncomfortable fact that around 20 per cent of its state-owned plants are operating at a loss, a fall of only 4 per cent since 1979. Though this figure is a rough guide to the problem, its real size cannot be known at present, since the irrational pricing system means that even efficient factories lose money if their raw materials are too expensive. The thorny question of price reform has been shelved till next year.

One answer to the problem of factory losses would be a bankruptcy system. In July a factory in Shenyang was allowed to go bankrupt and its equipment auctioned. But when the proposed bankruptcy law was debated by the National People's Congress Standing Committee in September, it was first shelved and then given only temporary status.

There are obvious problems to introducing such a law, such as the unfair pricing system and the question of what happens to the workers. Solutions are inherently part of the introduction of a market economy, which many in Peking still fear for economic and political reasons.

Colina MacDougall

THIRTY MILES from Baotou New Town, one of the most modern cities in China, some of the mountain people are still living in caves.

To drive up Wudang (willow tree) valley in this western part of Inner Mongolia is to travel backwards in time and witness the great disparity of development in China's hinterland.

A six-lane dual carriageway leads from the city to a metalled road that climbs into the mountains, piercing a still-visible section of the original, earth-brick, Great Wall of 200 BC.

At Shigui, a grim and gloomy hill town, the road drops down to the river-bed and gives up. A rutted track leads on to the coal mine, with its smoking slagheap, past cave-dwellings and mud houses, until it reaches, at the head of the valley, one of the biggest and best-preserved Tibetan monasteries in China outside Tibet.

Apart from the celibate lamas of Wudang, whose poverty is self-imposed, some 17,500 rural families are officially classified as poor. Deputy mayor Zhang Zhiyu said the city hoped to bring three-quarters of them up to the average Chinese living standard in the next two or three years.

"But local people have their own ways," he said. "Perhaps even if we succeed some will still want to live in their caves—they are warm in winter and cool in summer."

The comparative prosperity of the city people below owes a lot to the steelworks, around which the new town was built in the 1950s. Spread over 760 acres to the west, the steelworks is one of the largest in China. It employs 60,000 people altogether, for an annual output of under 2m tonnes a year of ingots, bars and pipe. Started with the help of the Russians in 1954, who constructed two of the three blast furnaces before the breach in Sino-Soviet relations, it only began paying its way after 1978. It is now said to make an annual pre-tax profit of 100m yuan, of which a percentage goes to the city and the rest to its owners, the government of Inner-Mongolia.

Output is supposed to increase to 2.5 or 3m tonnes during the present five-year plan, through selective modernisation—of the rolling mills, for example—and better use of capacity. Although managers denied there was any serious bottleneck, a short tour of the works revealed that only two of the four open-hearth furnaces



Baotou is trying to diversify out of heavy industry

were working (a third is being relined), and two of the three oxygen converters (one is "on standby").

The open-hearth furnaces will not be replaced because of the expense, one manager said, but also because they were better for scrap steel-making and for converting the type of iron ore from Baiyunerbo, 93 miles to the north that Baotou was built to exploit.

An important by-product of the iron ore is "rare earth," a group of chemical elements

which have a wide range of industrial uses. Baotou claims to have the biggest deposit of these elements in China, if not the world. It has been trying to entice American, West German and British companies into partnership for developing their application including optics, oil refining, fertilisers, porcelain manufacture and dyeing.

As a state-owned enterprise, the steelworks appears to have been largely unaffected by management reform. Managers said

that next year the division heads would have more freedom of decision on production matters and the local party secretaries would take a back seat. But any reorganisation at headquarters would depend on central government.

Like other Chinese industries, the Baotou steelworks already has some measure of autonomy. Instead of "selling" its total output to the state, it now has to provide a quota of 90 per cent of state-determined prices. The rest can be sold directly to

customers at prices dictated by supply and demand. Demand being what it is in China—and supply, too—that means at a premium.

Baotou is trying to diversify out of heavy industry on which 80 per cent of its manufacturing output depends. The original investment after 1949 included besides the steelworks, two machine-building factories, three power stations and an aluminium plant that produces 25,000 tonnes a year, mainly for the aircraft industry.

The capacity of the local brewery is supposed to be trebled, a large sugar refinery will be modernised to reduce its energy consumption and foreign technology will be introduced into the fur and leather industry, salad oil manufacture and flour milling. The presence of a dozen West German technicians at the city's guesthouse was evidence that some of these promises are being carried out.

Like administrators all over the country, Baotou's deputy mayor complained of the difficulty of establishing joint ventures. Foreigners would sell machinery but would not invest money, he said. Even then, they wanted to charge international market prices, which could not be afforded.

"Still, negotiating with foreign countries for light industry is easier than for heavy industry," he added.

Baotou is something of a showpiece of Communist rule, in terms of the development of the huge natural resources of the wilderness. Until quite recently, the city was little more than the last staging post on the Yellow River valley for the old Silk Road leading to India and the Middle East.

The city was supposed to become another Shanghai, until the threat of war with the USSR in 1969 scotched that idea. It has left Baotou with a city grid far in excess of its needs. A special guesthouse was built to receive a stream of dignitaries, including former premier Chou en-lai, and more recently Deng Xiaoping himself.

One of the city's most handsome new buildings, in ultra-modern style, is a social club for veteran cadres—a sort of Darby and Joan club for senior civil servants. But while they sit down to a game of Chinese chess, life for the cave-dwellers of the upper Willow Tree Valley goes on much as it ever did.

Christian Tyler

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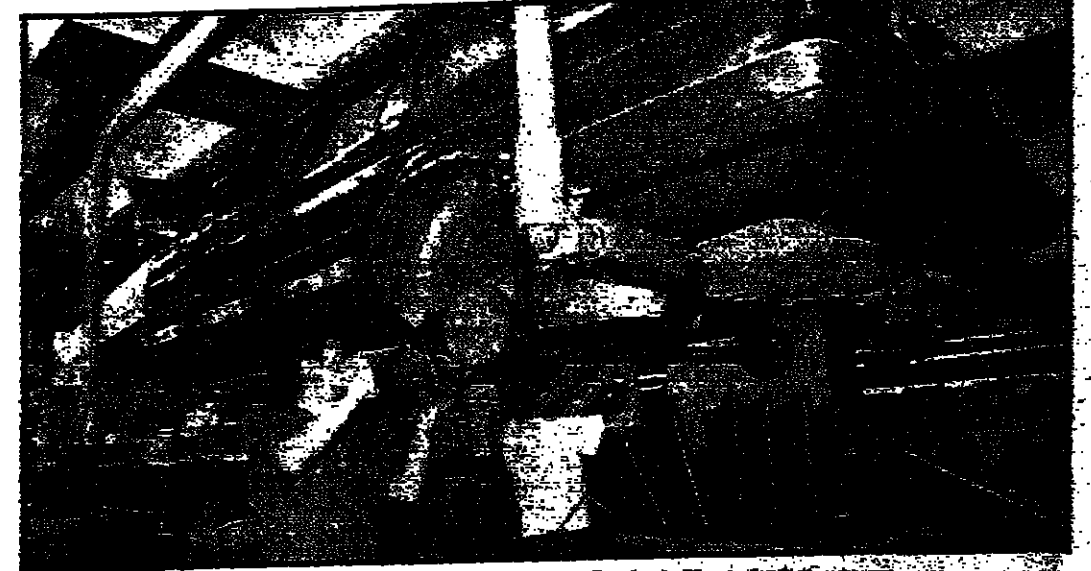
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مكتبة الأمل

China 10

Motor Industry

Roadblocks on ambition's path



The Volkswagen Santana plant at Shanghai

Automobile Output

	000s	% growth
1985*	439.50	—
1986	439	39
1987	316	32
1988	240	22
1989	195	17
1990	176	-11

* Forecast.

Source: China Statistical Yearbook

Bureau of Agriculture and the China National Automotive Industry Corporation (CNAIC) are all involved. Clear lines of authority have not been established and decision-making is weak.

Also, local resistance to mergers, closures and overall rationalisation is widespread and competition alone may not be sufficient to overcome this problem. More centralised authority to main policy planning in Peking is probably called for.

Moves to decentralise industrial decision-making have not benefited an industry which consists of some 3,000 vehicle and component plants around the country. Some are producing basically hand-made products, which makes little sense for an industry which requires large economies of scale.

Other problems endemic to Chinese manufacturing as a whole are holding up the industry. The country's long-debated bankruptcy law needs to be implemented soon if thousands of small vehicle component and

assembly plants are to make way for the 10 regional automobile centres which Mr Wu Qingshi, vice president of CNAIC, says offer the best way forward.

Lack of education and skills needed to run modern vehicle plants are compounded by the inability of managers to attract better workers by paying higher wages.

Last, but not least, the country's poor road network is hardly conducive to a thriving domestic demand for vehicles. China has 575,000 miles of roads open to traffic, but until last year there were no motorways and the country had a mere 1,850 miles of first-class roads.

Peking hoped that some difficulties could be overcome by inviting foreign participation, and has signed a host of joint ventures and technology licensing deals. In 1983, American Motors of the US led the way by signing a \$1.1-billion joint venture to produce Jeeps. In October 1984 VW initiated a DM 500m joint venture aimed at producing 100,000 cars by 1990.

In March 1985, Aveling Barford of the US signed a \$20m truck venture, and in the same month Peugeot of France joined a \$1.2-billion venture to produce pick-up trucks in Guangdong. In the same month Iveco, the Fiat subsidiary, signed a US\$250m supply and technology licensing agreement to produce vans in Nanjing.

Several smaller agreements have been set up with Japanese, British and other foreign companies over the last year.

Two of these ventures have got off the ground, but they have been beset by difficulties. The AMC Jeep plant in Beijing ceased production for several months earlier this year when the Government refused to provide the foreign exchange necessary to import vital parts. Mr Don St Pierre, president of AMC's joint venture, says this and other problems threaten the plant have been solved, but expects to produce a mere 4,000 vehicles this year.

VW in Shanghai, hopes to have produced 3,300 Santana cars by the end of 1986. But the company faces various problems over the plant's shift to localisation of parts, and a shortage of highly skilled labour.

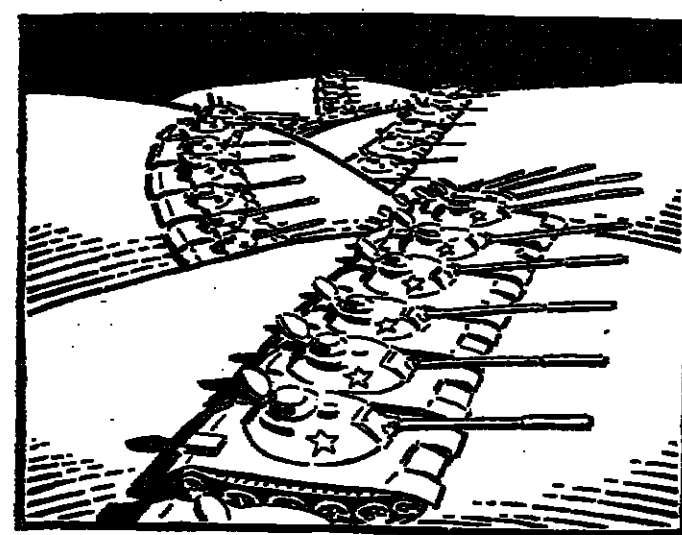
Mr Zhang Chang Mou, VW local managing director, says problems caused by the devaluation of the Chinese currency, which threatened to lead to severe financing problems for future plant equipment imports, were solved by an agreement reached with the Chinese in October. But he refuses to say whether the deal will require an increase in investment by VW.

Like many others in the industry, he maintains that a few joint ventures will not fix the industry's problems. What is required is an enormous shake-out which can only be brought about by a combination of the right policies at the top and a lengthy period of open competition between domestic producers.

Richard Cowper

People's Liberation Army

Focus shifts towards reform



Military and Security

China's army goes into business—military industries turn to civilian production and exports. Modernisation means retirement for 1m soldiers, and increasingly sophisticated training for the remainder. Public security remains tough, with heavy penalties and a legal system which in western eyes is less than fair.

Improved by installing a new gun and fire control systems, adding protective armour, and increasing manoeuvrability. Updated aircraft include several much-improved derivatives of the MIG-19 and the MIG-21.

At the Farnborough air show in the UK this year the Chinese for the first time unveiled a model of the new F-811 fighter, a Chinese version of the MIG-21. It is being flight tested and if successful will go into production shortly.

For updating weapons, the Chinese have resorted to importing advanced technology. Although they have generated more competition than commerce, significant deals have been concluded. The most important this year has been the agreement with the US Defence Department for the purchase of 55 advanced avionics kits at \$10m each for China's F-8 interceptors. The kits include sophisticated head-up displays, integrated navigational and fire-control instruments, and mission data computers.

One measure of China's military production has been the volume of its arms exports. From a country that in Maoist days exported arms on a small scale for political gain and denied other countries for profiteering, China has emerged as

ducts—are being turned out by military factories.

In 1985, some 10 per cent of these goods were exported to two dozen countries. The Chinese plan to expand this production, which serves two purposes: it transfers technology to the civilian sector, and it supports a large military industry which is necessary for national defence but cannot be fully utilised at all times.

The limited improvement of weapons has been accompanied by a comprehensive campaign to advance the professionalism of the PLA.

In 1986 the PLA concentrated on carrying out the far-reaching reforms that had been adopted for this purpose over the past few years. Supreme importance has been attached to raising the quality of leadership. The selection, education, promotion, and placement of officers has been directed toward increasing professional competence. The training of troops has been oriented toward preparation for a modern war, with special stress on combined arms operations.

The structure of the PLA has been streamlined and made leaner, more centralised, and more suitable to the needs of modern warfare. The command style and personal conduct of officers have been subjected to rectification. Military discipline has been tightened.

The PLA's preoccupation with military reforms further underlined the decline of its political influence. Veteran leaders, for whom the PLA had been a power base but also acted as national figures, are no longer active. The number of military men in policymaking organs has dwindled. More important, the professional commanders of the new generation are not inclined by training or temperament to intervene in politics.

Important changes in the Chinese leadership's perception of the external environment lie at the basis of its military policy. One is that the danger of war between the superpowers, in which China would inevitably become involved, has receded. More significant, China is no longer subject to an immediate threat of Soviet military pressure.

The effectiveness of the reforms is difficult to determine, because of the extremely backward state of the PLA's conventional forces at the outset of modernisation, even the modest progress which has been achieved seems considerable when viewed against the starting line. However, modest progress is not sufficient to bring it much closer to the level of modern armies, though the reforms have laid the foundation for long-term growth.

Elli Joffe

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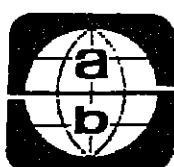
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Modernisation of the Chinese army has brought in a new uniform and image.

Efficient all-round market machine

Profile
Norinco

THE China North Industries Corporation is the world's biggest arms manufacturer, according to Zhou Peide, its president. But Norinco, the marketing arm of Peking's Ministry of Ordnance is also one of the country's most efficient all-round business machines.

Norinco makes a large range of weaponry from tanks to rockets, grenades, night vision goggles and laser range-finders. Foreign businessmen confirm that it has good markets, especially in Africa.

"We have more than 200 factories with nearly 1m staff," and our trade is about \$2bn a year, mostly exports," Mr Zhou says. He denied reports that China was selling arms to Iran and Iraq. "We tried selling Iran bicycles but they couldn't pay."

Norinco embarked last spring on a co-production agreement with Britain's Vickers Defence Systems to produce an armoured personnel carrier. The prototype was displayed at the Asian defence exhibition in November, and attracted much interest.

"I respect the courage of Vickers in this operation," said Zhou. "Normally the British are too gentlemanly—they wait to put on a tie while the Japanese

will rush out of the house half dressed."

With Deng Xiaoping's modernisation policy and the downgrading of defence priorities, Norinco switched about half its factories into the civilian field about four years ago. "Norinco is China's biggest maker of motor cycles," says Zou.

"We bought technology from Honda and Yamaha and now have 65 per cent of the market. Military and civilian technology have much in common. Our Coca-Cola cans use shell know-how, and we are making pipelines with gun barrel production facilities." The long list of other civilian products Norinco makes includes trucks, cranes, meters, gas cylinders and fire-fighting gear.

"We are allowed to keep most of the foreign exchange we earn, and are gradually buying technology. For instance, we bought optical glass know-how from Japan, and we are discussing heavy-duty trucks with Mercedes-Benz."

"We have about 30 small factories in the Shenzhen special Economic Zone, producing items with a good export market such as paint, plastic foam or toys."

Company president Zhou's primary interest may be arms, but Norinco has become a conglomerate which can satisfy most demands from specialists to water meters and food-processing equipment.

Colina MacDougall

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Legal system

Wheels of justice give rough ride



A police officer examines a French-made training weapon at the Asian defence exhibition in Peking.

least two months before his trial, police China. If the PSB wants to hold a suspect for more than two months while an investigation continues, it needs an approval from the PSB. If PSB officers want a search warrant, then it will be issued by the PSB. It is a law unto itself.

Yang—unemployed, or as the Chinese say, "waiting for employment"—was arrested in August and confessed. The PSB rounded up the bikes he had sold for about US\$80. They interviewed the purchasers, mostly farmers, and returned the bikes to their rightful owners. All very straightforward.

The accused told the police he had stolen the bicycles to repay a debt. He was too embarrassed to ask his father, the Dean of French at Peking's Foreign Languages Institute, for money because he was conscious that the "larceny offence" had brought shame on his family, and he did not want to bother them.

A continuing theme in Chinese newspapers is the condemnation of senior officials for having used their influence to keep wayward children out of jail. Yu Lei, Deputy Minister of Public Security, explained that such intervention happens occasionally, but emphasised that in China "everyone is equal before the law".

Mr Yu said the Government has been unhappy with the PSB's image and asked it to launch an efficiency drive three

years ago. The deputy minister reckoned that public respect has increased markedly, though reports of illegal detention by security officials (948 cases in the first half of 1986) would not have helped.

After reading the charges, the judge and jury took it in turns to question Yang Chang. He is told that he violated section 110 of the legal code, and is asked to describe in detail how he stole and sold each of the bicycles.

Yang explains that he used a screwdriver to crack the bicycle locks, then cycled the stolen vehicles to a park where he kept

them until the market opened. They were sold there at about a quarter of their value.

Judicial prestige—or the lack of it—has been a cause of much concern in China. What judges there were during the Cultural Revolution were little more than lackeys and summarily imposed harsh penalties on hundreds of Mao's political opponents. The Government says it is working towards an independent judiciary, though

Cai Cheng, Deputy Justice Minister, said judges are already "virtually independent." He did admit that most

judges are Communist Party members.

Mr Cai was asked about the death penalty, which was condemned in a report on the country's legal system. He said: "Capital punishment plays an important role in bringing the crime rate down. We only punish according to the law."

That judges are not independent is shown by their willingness to sentence criminals to a bullet in the back of the head when the Government decides that it is time to crack down on economic or violent crime. The

sign of these times are large posters plastered around cities with a report of the crime and sentence, and emblazoned with a large red tick to show that the penalty has been carried out. Amnesty International also strongly criticised China for imprisoning political dissidents for organising "counter-revolutionary activities." Cai Cheng said: "We don't have political prisoners."

After the evidence was heard in the case against Yang Chang, the two police officers summed up: "We all know why he wanted to steal the bicycles. He did not think about the people whose bicycles he stole. He is not a new criminal. We think he should be heavily punished."

Then Yang's defence spoke. He strangely suggested that leniency should be shown because the offences were committed by an individual and not a group. He gave no character evidence and no explanation as to the circumstances of the debt. It was a trial that, bearing in mind that it was considered suitable for foreigners to watch, raised more questions than it answered.

In his final say, Yang Chang sought mercy. "I hope you will consider that I am still a young man. Now that our society is changing rapidly, young people are needed. If you do follow the party's policy of being lenient to good criminals, I will become a good citizen."

The hearing was adjourned for 20 minutes. On returning, the judge said there was no doubt of Yang's guilt. Chinese courts tend to presume guilt, and regard a plea of not guilty or the like as an insult that must be severely punished.

"To protect the people's property," Yang Chang was imprisoned for four years.

Robert Thompson



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Oil

Foreigners wind down operations

A SMALL number of foreign oil companies are beginning to pack their bags and leave after five or more years of disappointing results in China's offshore oil programme.

BP, the UK oil company, which together with its partners has been the biggest spender after the Japanese in the Bay of Bohai closed in Shanghai office in July, its Zhanjiang operation in September, and last month decided to shut its main base at Canton. At the height of the exploration boom, BP had more than 150 expatriate staff in China. It is expected to retain a token presence of about 10 expatriates in Peking.

Along with its partners, BP spent more than US\$300m in exploring five first-round blocks in the Bohai Gulf, the South China Sea and the Yellow Sea without finding oil or gas. In last year's second round the company took a so-called seismic option under which it has no obligation to drill.

In November Pennzoil of the US closed its base in Zhanjiang, saying it was no longer interested in offshore oil exploration in China. The company and its partners had spent US\$30m "spudding" five exploration wells in two blocks but failed to find oil. Like BP, Pennzoil will maintain a small presence in the Chinese capital.

Both these companies said they would have been prepared to stay if Peking had come up with a more exciting prospect onshore, such as the oil-rich north-western province of Xinjiang. But hopes that China might open up the region to overseas contractors have faded.

For a number of others which have failed to find oil or gas offshore, a joint production contract in Xinjiang may also have held out the last hope of persuading them to maintain a significant presence in what was once regarded as the oil industry's final frontier.

Last year the north-west region produced a mere 6.5m tonnes of oil, but according to the World Bank, Xinjiang's Karamay field alone contains reserves of about 1bn tonnes—equivalent to eight years of China's total output at current production rates.

Local oil officials in Karamay had expressed considerable interest in foreign participation and a stream of oil company executives visited the area over the past year. But according to Ma Qi Fu, president of China's South Huanghai Oil Corporation, Peking has made it clear that it is unlikely to give

the green light to such a development.

A saturated world oil market, China's success in offsetting falling petroleum export earnings with sales of other products, and a continuing growth in domestic onshore oil production appears to have dampened Peking's desire to invite overseas companies into one of its most prospective areas.

Before the slump in oil prices early this year Peking had attempted to revive flagging interest by offering its first onshore area when it invited foreign companies to tender for contracts in the 10 southern provinces. But it was well aware that this unexplored area was not expected to contain a great deal of oil and interest has been negligible.

There has been only one taker; a group of four speculative Australian oil companies had taken a block onshore Hainan Island, but even this appears to have been negotiated separately with the island's local authorities.

The outlook for overseas participation in China's oil industry, therefore, does not look

rosy. Since the early 1980s some 28 foreign companies have spent about US\$1.5bn on drilling about 130 exploration wells. Their Chinese partners have spent more than US\$300m. But only half a dozen or so have struck oil or gas in significant quantities, and at current prices most would not appear to be viable.

The two projects that have got off the ground are in serious trouble in the north-east, the Japanese have sunk about \$500m in exploring and developing the Chenghai Field in Bohai Bay. The field started producing in October 1985, but with output likely to remain at no more than 8,000 barrels per day (b/d) it would take more than 30 years to recoup costs at current oil prices.

In the south-west, Total of France's Weizhou Field in the Gulf of Beibu started coming on stream in August. Current output of 10,000 b/d hardly covers the production operating costs let alone the estimated \$162m which Total and a group of Japanese, Norwegian and Chinese companies have sunk into the project.

Perhaps the biggest potential find has been Arco's discovery of the Yinggehai gasfield off the southern coast of the island of Hainan. The field is estimated to have potential reserves of 90bn cu m. But the \$400m project has been stalled by disagreements over prices and sales, and it may not start for several years.

Chinese officials are putting on a brave face. They point to the six second-round contracts signed last year, the five extensions to the first round, and two other contracts negotiated outside existing areas. Foreign companies are expected to have drilled 20 exploration wells during the course of 1986—a level of activity officials say makes offshore China the most active exploration area in Asia.

Both Phillips and the ACT consortium are considering developing oil flows of around 14,000 b/d, they claim. Whether at current prices these companies will decide to go ahead soon must be open to doubt. For many there is not a lot to relieve the general gloom.

Richard Cowper

An ethylene works on the Daqing oilfields in north-east China. This is the country's largest oil production area, comprising seven fields and work is going on to increase the recovery rate by pumping in water to keep up pressure. The Government is willing to spend foreign exchange on new techniques.

Crude Petrol Output

	000 tonnes
1985*	128,000
1986	124,716
1984	114,504
1983	106,068
1982	102,120
1981	101,220
1980	105,948
1979	100,522
1978	104,082
1977	93,636

*Forecast
All production to 1985 is onshore
Source: UN Monthly Bulletin of Statistics



Nuclear

Glittering prize loses lustre

LITTLE MORE than a year ago the world's leading nuclear manufacturers were still entertaining grandiose dreams that China would prove a multi-billion-dollar goldmine for plant and equipment sales well into the next century. Negotiations on a US\$4bn joint venture deal to construct two 985MW nuclear reactors at Daya Bay, close to Hong Kong and 43 miles east of Shenzhen, were at an advanced stage. Prospects for nine further plants officially planned by Peking to add an additional 8,000 MW of nuclear power by the end of the century, offered a glittering prize to a world industry that had all but ground to a halt due to environmental and safety concerns.

Last December the US became the seventh country after Japan, the UK, West Germany, France, Brazil, Belgium and Argentina to sign a bilateral nuclear co-operation agreement with Peking. International companies were estimating that the market could be worth between US\$10bn to \$20bn up to the year 2000.

Talks on a 2,000 MW nuclear plant at Sunan, 37 miles west of Shanghai were under way and foreign companies were beginning to look closely at a 900 MW reactor planned for Jinshanwei, also near Shanghai, and a proposed 1,800 MW plant in the north-western province of Liaoning.

Apart from Daya Bay, however, the nuclear goldmine turns out to have contained little more than a cache of fools' gold. The contracts for the controversial plant were signed last September with Framatome, Electricite de France and General Electric of the UK after seven years of often tortuous negotiations. But it is now widely accepted that this was the first and the last complete nuclear plant to be supplied by a foreign company for the foreseeable future.

Negotiations with Kraftwerk Union (KWU), a subsidiary of the West German Siemens electrical group, for the Sunan plant were broken off. It was a bitter blow for KWU, which had been widely tipped to win the estimated \$1.5bn contract. It quickly emerged that those in Peking who had entertained serious doubts about the feasibility and economic viability of the Government's ambitious nuclear power programme had won the day. Mr Li Peng, the

Chinese vice-premier in overall charge of energy, said that nuclear power would be a small supplement to other forms of energy generation, and these plants that go ahead would be largely done by the Chinese.

The main reasons for the change of heart were:
• High initial cost of importing nuclear power plants at a time of continuing shortages of foreign exchange. It was felt that foreign exchange earnings would be better employed in developing other areas of China's fast-growing economy.

• Doubts about the cost competitiveness of nuclear energy given the country's vast untapped reserves of coal and hydropower.

• A growing awareness of the potential safety problems, particularly after the disaster at the Soviet Union's Chernobyl nuclear power complex and the widespread opposition to Daya Bay in Hong Kong. A serious shortage of highly skilled personnel to run and manage the plants underlined these concerns.

Peking, however, has decided to continue with a small nuclear power programme of its own, likely to require a comparatively small amount of foreign equipment and skills.

At Qinshan, 78 miles south of Shanghai, in the densely populated province of Zhejiang, the Chinese are building a 300MW reactor. This project was first proposed by the late Premier Zhou Enlai and construction is now in full swing. About US\$30m of foreign equipment is likely to be imported.

The reactor vessel for Qinshan will be imported from Mitsubishi Heavy Industries of Japan, while steam turbines will be jointly manufactured with Westinghouse in Shanghai. The coolant pump is expected to come from KWU, and Framatome is likely to provide some other equipment.

According to Zhang Fenzeng, vice minister for power, plans to build two other units totalling 1,000MW at Qinshan have been approved by Peking. But even if these go ahead in the near future, which must remain doubtful, they will largely be built by the Chinese. The US\$50m or so Peking estimates this will require in imports of foreign equipment is little consolation for the rapid disappearance of a \$1bn dream.

Richard Cowper

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Coal

Transport problems cut expansion

A SINGLE sentence in China's new five-year plan underlines the extent to which the country's leaders have changed the policy on coal.

The emphasis in construction will be placed on technological transformation, renovation and expansion of existing coal mines.

Gone are the days when new mines were opened as fast as possible, each larger than the last. China has discovered that it is not exploiting existing mines as effectively as possible, and that opening more mines will only worsen the stockpiling problems created by an inadequate rail and river transport system in many of the key areas.

China is the world's largest producer of coal, with estimated reserves of nearly 800bn tonnes, of which between 100 and 200bn tonnes can be expected to be

mined. Production has jumped in recent years and is expected to total 250m tonnes for 1986, suggesting that the target of 1bn tonnes by 1990 and 1.2bn tonnes by 2000 will be easily achieved.

The fact that the production target now looks so easily attainable has encouraged the Ministry of Coal Industry to sit back and take a more rational view about the future. It has long deplored over the country's failure to build enough rail links to enable coal to be shifted quickly around China, and crucially to the east coast ports for export.

The result is that the northern provinces like Shanxi sit on unlimited reserves of coal and mine enormous stockpiles which cannot be moved the several hundred kilometres to the heavily populated and industrialised provinces of the south. So many Chinese indus-

tries never operate at maximum capacity because of the chronic energy shortage.

The ministry has therefore decided to consolidate existing mines and give priority to mining in the east where transport is better and the ports are close, even though the coal is more expensive to mine.

This has led to some dramatic changes. The ministry has greatly reduced plans for four of the five huge open-pit mines proposed in the last five-year plan, and you do not have to go far in Peking to find people urging that even the fifth should be halted. This is the Antaibao Number 1 Mine at Pingshuo in Shanxi Province being developed jointly with the Occidental Petroleum Corporation of the US.

The \$600m project has taken five years of negotiations and involves a \$475m loan led by

Bank of America, Bank of China, Credit Lyonnais, Industrial Bank of Japan and the Royal Bank of Canada. This development will eventually produce 15m tonnes of open-cast coal a year, much of which is destined for the stockpile unless something miraculous happens to the Shanxi railroad system.

Of the other four the biggest casualty is the Junggar open-cast mine in Inner Mongolia. Bechtel, the US engineering company, has started work and \$125bn of Japanese funding had been organised when the Ministry changed its plans largely because there appeared to be no chance of getting the requisite railroad built from Inner Mongolia to the south and south-east. Bechtel has pulled out and if the mine is eventually developed it will be well below the 35m tonnes capacity planned.

"They should call a halt to all such ventures today. Let's just get on and try to do what we've already started properly before we push on into these huge and hopeless projects," says a Peking expert on foreign investment in China.

Certainly the Ministry shares his view about Junggar and one of the other projects - Yueshan, also in Inner Mongolia, which also appears to have been abandoned.

Even Shanxi, the coal province, has suffered to some extent by the focus on the east. It produces a quarter of the country's annual output but has also had to call off some major projects because of transport problems. Four years were wasted in negotiating a World Bank loan for a mine at Chengzhuang which will not now be built. Instead the money will be used to improve existing mines, an arrangement which could have been concluded years earlier.

An additional reason for the new emphasis on eastern coal-mining sites close to the ports rather than large but inaccessible western mines is to try to

boost foreign exchange earnings through exports. During the new Five-Year plan period to 1991, China will try to triple its coal exports.

In 1985 China exported only 7.75m tonnes—less than 1 per cent of the 350m tonnes produced—although 40m tonnes sat stockpiled in the province of Shanxi alone. And even these few export earnings were eroded by the need of some provinces to spend foreign exchange on importing coal from as far away as Australia.

The China National Coal Import and Export Corporation predicts exports will reach 10m tonnes by the end of 1986 and then rise by 5m tonnes a year throughout the five-year period. The corporation will set up 10 coal export bases to improve production quality and the eastern port of Qinghuangdao will be expanded so that it can handle 75m tonnes of coal a year compared to the present 40m tonnes.

However, world coal prices have been declining because of low oil prices and China faces very stiff competition in world coal markets although low production and labour costs give it an edge over most other producers except, perhaps, South Africa.

This is perhaps China's best hope for turning its huge coal reserves into big foreign currency earners while waiting for the internal infrastructure to be completed so domestic markets can be properly supplied.

The British Royal family no longer imports high-grade coal from Shanxi like Queen Victoria did but it still seems easier for the Chinese to get coals to Newcastle than to Guangdong.

Robin Pauley



Electricity

Dark times for ice-cream

CANTONESE in the rich south-east province of Guangdong have developed a passion for American ice-cream and soft drinks. But at the height of the summer's season they were lucky not to be deprived of their favourite products. A series of electricity black-outs threatened to cut output at the Guangdong joint venture operated by Heatrice Foods of the US near the Cantonese port of Huangpu.

Fortunately an enterprising company executive saved the day by persuading a factory next door on a different power grid to cut its operations and sell a sizeable proportion of its electricity allowance.

In a province estimated to be at least 40 per cent short of electricity, such stories are by no means uncommon. Guangdong is China's leading exporter and produces about a quarter of the country's light industrial goods. But many of its factories are forced to work just three or four shifts a week, and some of these are at night. The province, home to 60m people, has an installed generating capacity of a mere 4,200 MW and it consumes per capita about one-tenth of the electricity used in nearby Hong Kong.

Elsewhere in China shortages can be almost as acute. Officials in Peking estimate that about one-fifth of the country's industrial capacity is idle because of insufficient power. In November, Zhang Fengxiang, China's vice minister for Water Resources and Electric Power, said that in 1985 the shortage countrywide was equivalent to 14,000 MW.

In private, Chinese planners say this may be much worse. If the restrictive regime of power rationing was lifted and individuals and factories were allowed to consume what they wanted, power demand would jump by more than 30 per cent overnight, they believe.

Peking is aware that this power shortfall is perhaps the largest drag on the country's economic performance. In the Sixth Five-Year Plan (1981-85), the Government set aside 65bn yuan, or one quarter of capital construction investment funds, for the development of electricity and other power sources. The result was that electricity generated grew by 36 per cent or 106bn kilowatt hours (kwh) to 460bn kwh last year.

In the current Five-Year Plan

Electricity Output

	million kwh
1985	406,236
1984	373,644
1983	349,272
1982	327,684
1981	303,264
1980	300,624
1979	281,922

Source: W. World Bank, Beijing, 1986

Poland, Hungary and Rumania for the purchase of a further 2,500 MW, also over six years. The deals bring to 14,800 MW the total agreed this year, well above the 10,000 MW the Government planned to import during the Seventh Five-Year Plan period.

This is hardly good news for the 30 or so leading Western and Japanese companies which have been engaged in a sometimes cut-throat battle for a piece of the China market over the last few years. According to Mr William Empson of IBEI, the UK company, many groups have pared prices to the bone to get a foothold.

Some have been prepared to lose money to get their first contract. "The reality in China is that we are already facing a price per kilowatt that is very punishing," he says.

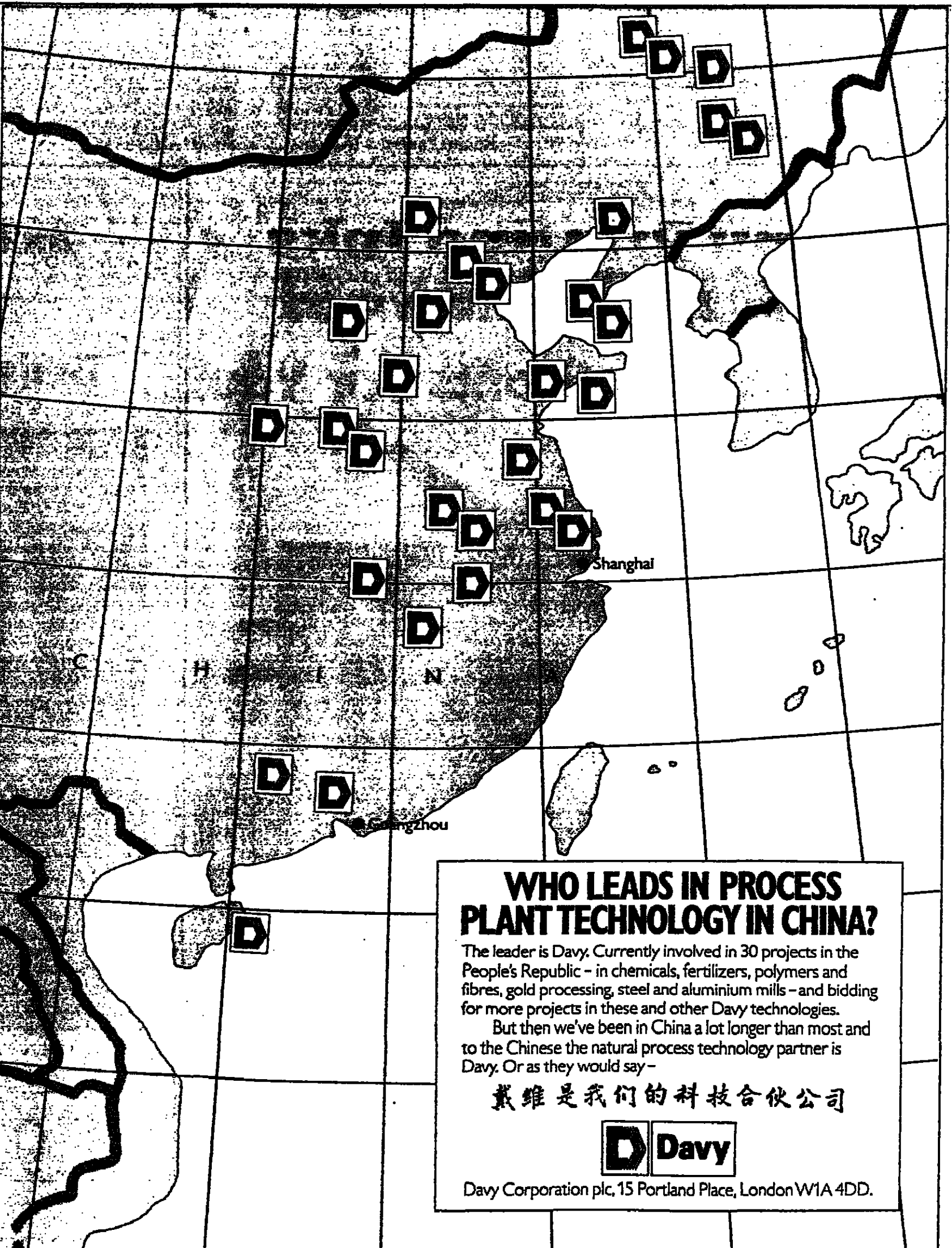
Chinese officials, however, are understood to be still negotiating with Japanese and Western companies for four further thermal plants—at Yueyang in the province of Hunan, Dezhou in Shandong, Chongqing in Sichuan and one in the city of Shanghai. These plants are expected to cost a total of about \$550m and generate 3,300 MW. Whether negotiations will be slowed remains unclear.

The Communist bloc deals are to be paid for in kind, probably in textiles and light industrial goods, so Peking may take the opportunity of speeding up its power programme. Even with this extra capacity, it is doubtful whether output can catch up with real untapped demand.

China is aiming to quadruple its industrial and agricultural output from 1980 to the end of the century, and there has already been an explosion of demand for power-hungry imported and domestically produced refrigerators, television sets, washing machines and other consumer durables.

The average increase in power supply over the next couple of decades will need to be in the region of 9 per cent a year if these targets are to be met, well above the 7 per cent annual average increase over the last eight years. Even with the current ambitious power programme, China has to run just in keep still. Many fear the electricity energy gap may even widen.

Richard Cowper



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18, Baoding Road, Qingdao, China
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Chinese vice-premier is in charge of energy, said that...
...energy generation, and...
...largely done by the Chinese...
...change of heart were...
...of continuing shortage...
...that foreign exchange...
...could be better employed...
...na's fast-growing economy...
...petitiveness of nuclear...
...Given the country's vast...
...hydro-power...
...potential safety problem...
...the Soviet Union...
...nuclear power complex...
...Bay in Hong Kong...
...shortage of highly skilled...
...sonnel to run and manage...
...plants underlined these...
...reasons.

Peking, however, has...
...to continue with a small...
...power programme of...
...likely to require a...
...relatively small amount of...
...equipment and skills...
...At Qingshan, 70 miles...
...related province of Zhejiang...
...Chinese are building a...
...reactor. This project was...
...proposed by the late...
...Zhou Enlai and...
...now in full swing...
...US\$500m of foreign...
...likely to be imported...
...The reactor vessel...
...will be imported from...
...substituted Heavy...
...Japan, while steam...
...will be jointly...
...with Westinghouse...
...The coolant pump is...
...come from KWU, and...
...some is likely to...
...other equipment.

According to Zhang...
...vice minister for power...
...by two other units...
...1,600MW at Qingshan...
...approved by Peking...
...these go ahead in...
...future, which may...
...doubtful that will...
...built by the Chinese...
...US\$500m or so Peking...
...this will require in...
...foreign equipment is...
...division for the...
...disappearance of a...
...Richard Cow

I/E Corp.,

Agriculture

Revolution in productivity

CHINESE agriculture has stood still for centuries. Dynasties and revolutions have come and gone but back-breaking manual labour and beasts of burden remain the mainstay.

"Remember as you fly over all those beautifully manicured plots and fields that it has all been done by hand, and just imagine the potential if it were mechanised, especially as the Chinese are basically good farmers," said a Western diplomat specialising in agricultural development.

Could it happen? "No," he replied.

Nevertheless, China's agricultural reforms since 1978, returning to household farming and individual responsibility rather than collective communes, has led to greatly improved manual agricultural productivity. The result is that 30 per cent of the peasant farm-labour has already been made redundant and the long-term plan is for 70 per cent to have left the land by the turn of the century.

The potential social upheaval caused by such a rapid transformation of a huge agricultural population into an urban or semi-urban industrial one has not escaped China's leaders. The policy to solve it by the widespread introduction of rural industries is probably the one initiative since the end of the Cultural Revolution which no longer raises any doubts over its ability to work. It is a major success.

In spite of the fact that China has a quarter of the world's population and most live a rural existence, it has only 7 per cent of the world's arable land. Put another way, the country has four times the population of the US with only half the arable land.

The basis of the revolution in China was that everyone should be clothed, housed and fed. It is an ambition that has been largely achieved, although this can be hard to judge as vast areas of the country remain closed to foreigners.

But feeding the population, which is now double the size it was when the Communists took power in 1949, is getting harder and harder. Bad weather and a move out of grain into cash crops by the newly independent farmers caused a large drop in grain production in 1985 when the total crop was only 380m tonnes compared with 407m in 1984.



Rural Area Reforms

Peking's changes in the countryside have meant more food for all and riches for some. Sidelines and small businesses today generate wealth unimaginable ten years ago.

There has been a drought this year, too, and although no official figures are available, most estimates for 1986 are for 390m to 395m tonnes, slightly better than last year but well short of national needs. To keep the shortfall in perspective, even the bad harvest of 1985 was 25 per cent up on 1978.

But it does suggest that China, having managed to become a marginal net exporter of grain, is likely to return to being a net importer.

While grain production is sluggish, other sectors of China's farming output are booming. Sugar, cotton and rapeseed are producing very large crops, creating storage problems in some areas. But it is the staple grain that matters most.

Central government has reacted swiftly to try to stimulate farmers into growing more grain but with only limited success. Chen Yun, a member of the standing committee of the Politburo, warned of social disorder unless grain production was sufficient to feed the entire 1bn population.

Grain acreage has been raised, extra subsidies applied to fertilisers, and soft rules

introduced for bank loans for grain farmers who make supply contracts with the state. But the take-up of the concessions is reported to be low—too low for the target of raising grain output by 3.4 per cent a year to achieve 450m tonnes by 1990.

The new grain contracts include an agreement to buy 70 per cent of the contracted output at prices higher than the official purchasing price but lower than the market price. Once the contract grain has been supplied the farmer is free to grow whatever other crops he likes and sell them in the free market together with any grain above the contract amount.

But even this profit incentive is less attractive to many farmers than growing cash crops and selling them in the free market.

A new policy to help agriculture will be to take 1bn yuan a year each year until 1990 in tax from the thriving rural industries for agricultural support and investment.

This new tax is designed to make the farmers and rural industrial workers more interdependent and encourage the two sectors to work together more.

Robin Pauley

RURAL INDUSTRIES have become a major economic force, contributing both to rising national gross domestic product, generally referred to as social product and raising sharply the average incomes and expectations of a large sector of the labour force which might otherwise be unemployed and potentially socially disruptive.

These industries have fixed assets of 75bn yuan and during 1985 paid nearly 14bn yuan in taxes. They have also started exporting, earning a crucial 4bn yuan in foreign currency. Many are engaged in industries related to agriculture—fruit, meat and vegetable processing and canning, for example. Others are involved in light industry and crafts—electronics, textiles, furniture, shoes and clothing.

Equipment is often obsolete and working conditions poor but productivity is high and worker satisfaction bordering some-times on the euphoric as income and material wealth rise in return for easier labour.

As the rural businesses expand they are expected to provide a further 50m jobs by 1990 followed by another 100m by 1995.

There are already more than 12m such businesses, some very primitive, employing nearly 70m people.

The industries have been so important, particularly in mopping up surplus labour, that the Government has decided to take a relaxed view about their impact on the overall economic strategy.

For example, there has been great concern about the extent to which the economy overheated in 1985. Rapid growth fuelled rising incomes which resulted in enhanced demand by consumers for imported goods, and high inflation. The tightening of policy, slowing of growth and restriction of credit has not applied to rural industries.

Since the squeeze began towards the end of 1985 the Agricultural Bank of China has entered the bond market for the first time, issuing well over 1bn yuan of bonds and using the funds to make special and soft loans to help rural industries expand and modernise.

Western diplomats, while full of praise for the achievements, are cautious about the future for the rural sector. "The agricultural reforms have been easy and the easy returns have now been achieved," warned one.

"Marginal returns will be increasingly difficult to get. Yet

you still have more than 80 per cent of the population dependent on the rural sector either through agriculture or through the rural industries.

"If anything upsets food production or the viability of the industries you have a problem. So far, they are doing pretty well

and the people are well satisfied. But if expectations fail to be met and particularly if China experiences any major food shortage it will look different.

Robin Pauley

Diversification raises incomes



A sideline rural industry: drying lizards for Chinese medicine at a Laoshou free market.

Millionaire in a one-room house

Profile

Gao Jinlong

GAO JINLONG is about to buy a private car. This makes him a rather special and successful man in China, although his village means he is also going to buy a second car—or more precisely a truck—for the village's communal use.

Gao's father was a humble cobbler in the poor agricultural

village south of Taiyuan, and his son learned how to make shoes by watching and helping. He was never happy in the fields, and when China's reforms allowed individual private enterprise his thoughts turned back to the art of the cobbler's last.

In 1983 he joined two other families, each putting up 2,000 yuan savings with a 20,000 yuan bank loan to start a business.

They set up in a row of primitive sheds and soon had villagers wanting to make extra cash after work in the fields, or during the winter months when the ground is frozen.

In 1983 they turned out 11,000 pairs of shoes, all of which sold instantly on Taiyuan market for 21 Yuan a pair. This year, with 80 families working in the factory, 40,000 pairs of shoes will be sold at 24 Yuan.

"I cannot make enough," he says, surrounded by workers sitting on low stools and tapping away as they gossip. They can earn up to 250 yuan a month.

"We shall make a profit of 120,000 yuan this year. Each of the three owner-families will take 12,000 yuan. The rest will go on new machines, reinvestment, the car so I can get the goods further afield and the

truck for the village," Gao says. He is a "Wan Yuan Hu" or "10,000 yuan family" which means he is very rich—the Chinese equivalent of a millionaire. "I would like to be a multi-millionaire," he says sitting in the grandest house in the village—although still consisting of only one room.

"My family has everything it wants—tv, refrigerator, a tape recorder, and this big house which we had built for 30,000 Yuan, compared to a normal cost for a house of 10,000 Yuan.

"But many people in this village are very poor and I would like them all to have better

houses, so I want to earn more and help them," he says.

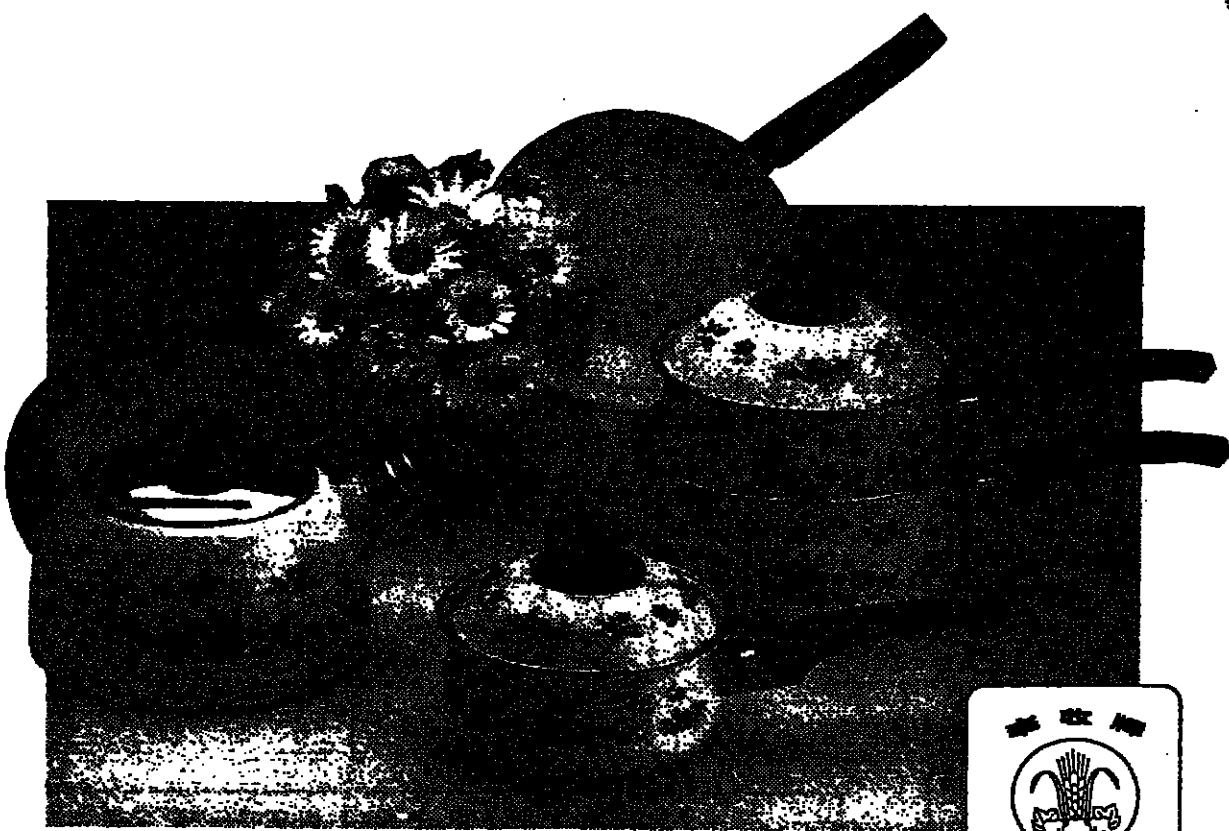
What about giving them the factory then when he retires? "Oh no, I have three children, all studying. I shall give each of them 10,000 Yuan when they are grown up. Two are daughters so will leave the family when they marry.

"I shall give my part of the business to my son. He should become very rich," he says, beaming and stuffing handfuls of sweets into the pockets of his visitors as they leave.

Robin Pauley

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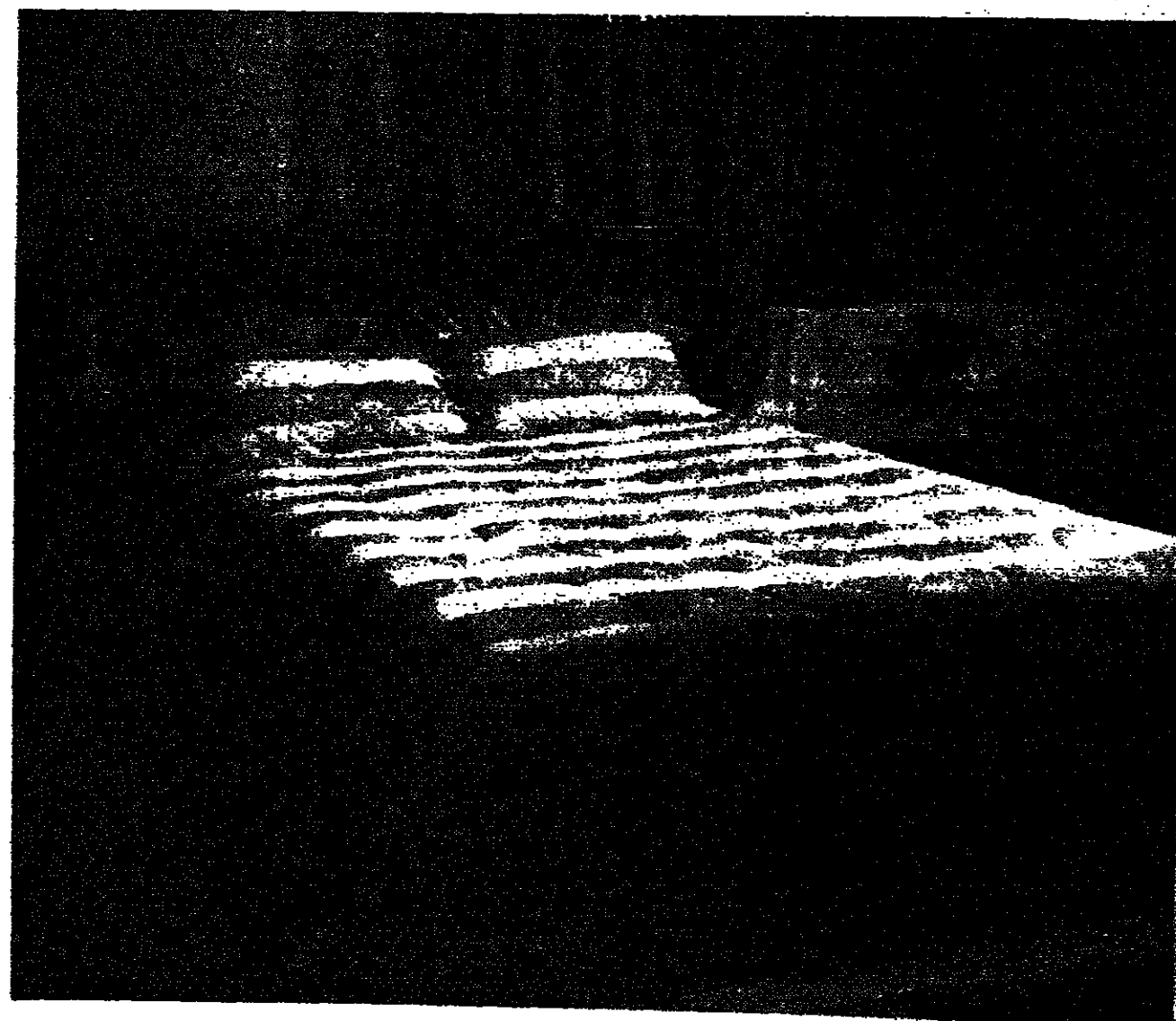
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China 15

Foreign Trade

A large small step towards growth

EVERY YEAR the runway has been improved a little, the encroaching brushwood cut back and more landing lights added. But the foreign investment jumbo jet will still not land in China.

True, a number of light aircraft have come in, piloted by patriotic overseas Chinese from Hong Kong or the US, setting up hotels, restaurants and small manufacturing companies. In many parts of China, however, provincial officials have stopped scanning the sky for that big cargo of foreign capital they have been taught to expect.

They have come to learn that the foreigner will sell or lease machinery, often accepting the product of that machinery in exchange. He will sell his expertise under licence, but, by and large, he will not make a substantial equity commitment. In the early days of the "open door," China's ambitions were frustrated by a pardonable lack of understanding of what the overseas investor needed—namely watertight contracts that gave him the real prospect of being able to make a return on his money and the ability to repatriate hard-currency profits. Today the Chinese know what investors want—they have been told by enough visiting delegations and resident diplomats. But a sharp fall in foreign exchange reserves has left them feeling unable to address the basic problem of foreign exchange convertibility.

Evidence of the Government's determination to tackle the other disincentives—mainly fiscal and bureaucratic—came in October with publication of a

further set of measures. It had become obvious that an apparent surge of investment last year was fading. In the first half of this year new investment fell by at least 20 per cent to \$1.24bn compared with the previous half-year—the first fall since the door was opened. The number of contracts signed was down by a third, it was reported in October.

About \$16bn has been committed since 1978, but according to the Government less than a third of joint ventures agreed are actually in business. In Guangdong, the southern province neighbouring Hong Kong and where half the foreign capital is found, a survey in June showed that nearly three-quarters of the ventures were having foreign exchange difficulties.

The October measures provide specific inducements to export-oriented and high-technology ventures, illustrating the Government's concern both to protect its foreign exchange reserves and to direct capital into industrial modernisation. Land-use fees will be harmonised and in some cases reduced. Ventures are exempt from some labour subsidies. They will get priority claim on utilities and pay the same for them as state enterprises. Their remitted profits will be tax exempt, and tax will be refunded on profits reinvested for at least five years.

Ventures selling more than 70 per cent of their goods abroad will have their profits tax halved and high-technology ventures will get a three-year extension to the period of concessionary tax rates.

Businessmen were told that the definition of "high technology" will be a matter of local interpretation, implying that the measures will be more generous in practice than they appear.

All ventures will get greater freedom over recruitment, wages and access to raw materials and funds. They will be able to appeal against what they consider unreasonable charges. Investment applications are supposed to be processed within three months.

More importantly, article 14 gives joint ventures the right, under supervision of foreign exchange control departments, to "mutually adjust their foreign exchange surpluses and deficiencies among each other." According to He Chunlin, chairman of the state council group on investment, such swaps could be initiated by the parties, at prices determined by themselves without government interference.

Prior permission from exchange control officials was not required, provided the transactions were reported afterwards.

Auctions of this kind are already going on "experimentally" in Shenzhen special economic zone next to Hong Kong. Shanghai also has a foreign exchange swap market: the US Ford joint venture has obtained exchange from local government and other companies in which there is foreign investment.

He Chunlin also assured investors that their ventures had the same legal status as local enterprises—a statement

that has encouraged US diplomats to believe that America's long-sought investment treaty with China may at last be realistic.

China has signed 14 bilateral investment promotion and protection agreements with the West, including one with Britain in May this year. The UK-China agreement is said to guarantee repatriation of capital profits and fees, with delays in case of balance-of-payments difficulties, full and speedy compensation in the event of nationalisation, and settlement of disputes by international arbitration.

The Japanese, big traders but small investors in China, have about 100 true equity joint ventures out of a total of 211 contracts. A Japanese diplomat claimed that the ventures were gradually becoming profitable, but were still unable in the main to do what they really want—sell into the huge Chinese consumer market. He described the October measures as "a large small step."

Others say it will be only a small step, until the authorities recognise that, in the early years at least, new ventures can only sell into the home market, that they must be able to count on converting their profits, and must have a sufficiently long guarantee of life to make the initial investment worthwhile. Although big multinationals are involved in China—IBM, Volkswagen, Pilkington, J. Reynolds, Philips—the big money is not.

The runway will have to be a lot flatter and longer before foreign investment in China can take off.

Christian Tyler

Exports			Imports		
Item	1985 Volume	Change (%) Over 1984	Item	1985 Volume	Change (%) Over 1984
Pipe	2,500 tons	-5.5	Grains	5,833 m tons	-44.9
Crude oil	308,424 tons	8.9	Edible sugar	1,844 m tons	-50.3
Agro products	114,263 tons	-7.9	Natural rubber	149,388 tons	-36.7
Grains	9,656 tons	28.7	Timber	9.3 m m ³	17.7
Vegetables	477,736 tons	-4.5	Pulp	524,414 tons	-14.1
Animal food	372,512 tons	-7.3	Synthetic fibre	474,670 tons	75.8
Plastics	158,153 tons	13.3	Synthetic silk		
Textiles	18,573 tons	23.6	for spinning		
Coal	335,232 tons	71.2	Wool	277,501 tons	59.6
Iron ores	4,239 tons	-6.1	Iron ore	167,233 tons	92.5
Steel	51,991 tons	7.6	Soda ash	1,034 m tons	21.5
Crude oil	7,400 tons	5.3	Chem. fertiliser	7.5 m tons	-18.5
Oil products	29,700 tons	34.9	Farm insecticides	25,869 tons	-73.2
Edible plant oil	6,070 tons	4.5	Paper and paper board	814,579 tons	-34.1
Medicines	146,353 tons	13.6	Cement	3,43 m tons	13.6
Chemicals	147,832 tons	-12.2	Refined steel	19,298 m tons	56.9
Cotton cloth	1,570 metres	-7.8			
Other cloth	704 metres	-2.1			
Silk and satin	110 metres	8.2			
Carpet	4,010 metres	-8.3			
Household pottery					
& porcelain	505,106 tons	-10.8	Copper and copper alloy	346,985 tons	36.6
Tools (for manual and machine)			Aluminium and aluminium alloy	468,472 tons	85.4
Garments	505,111 tons	-5.0	Zinc and zinc alloy	252,579 tons	-9.7
	799,190 tons	-37.9	Electronic calculators	15.6 m tons	132.1

Source: JETRO China Newsletter

Foreign Trade

	Jan-Sept '86	% increase on 1985
Exports	21.4	14.8
Imports	30.4	5.1

Source: State Statistical Bureau

Source: JETRO China Newsletter



Foreign Trade and Investment

China can modernise quickly only if it can import technology. This year it faced problems, with falling foreign investment and foreign exchange reserves and rising values of the Japanese Yen and the Deutschmark. But it successfully boosted exports, improved its relations with its Japanese partner and extended contacts with Hongkong.

Foreign Investment

Losing struggle with imbalance

AFTER more than 12 months of tough import controls, China still appears to be losing the struggle with its foreign trade deficit.

The imbalance reached nearly \$9bn in the first three quarters of 1986 (based on Customs figures) suggesting a figure of nearly \$13bn for 1986 as a whole. This is not much less than the \$14.9bn recorded the previous year.

Imports were up just over 5 per cent in volume terms, according to latest official figures. On the other side of the account, however, the news has been much less bleak than expected. Despite suffering a serious loss of some \$3bn in foreign earnings because of the fall in oil prices, China managed a 14.8 per cent rise in exports up to the third quarter, according to the state statistical bureau.

A currency devaluation in the summer of 1985 per cent, following smaller adjustments of the Renminbi yuan, has probably helped. The evidence is that corporations have chosen to hold their export prices rather than go for extra volume and the higher return on overseas sales in Renminbi terms has encouraged enterprises to switch out of the home market.

There is further to go yet, according to Zheng Zuo-bin, Minister of Foreign Economic Relations and Trade (Mofert), who said the present exchange rate could not be maintained for a long time and there would certainly be more adjustments. China's need to reduce its balance of payments deficit was further underlined last month when the International Monetary Fund approved a standby

loan of \$717m to help to pay for imports. The loan facility is for five years at a rate of 6 per cent. The balance is helped by an estimated \$3.2bn surplus in the first half on invisible trade, including gold sales. Remittances from abroad could be about \$1bn, and arms sales (which do not appear in the official tables) may be worth about \$1bn and \$2bn a year.

Foreign exchange reserves are put at \$10.4bn, of which by far the greater part is held by the Bank of China on behalf of local authorities and enterprises. Western economic analysts say they have difficulty in reconciling the official figures and are puzzled by the failure of the reserve figures to fall further. They assume that short-term borrowing is covering the gap.

Probably the gap is also being bridged by payment delays: China is losing its reputation as a strict housekeeper, according to French, US and other traders, who are beginning to complain that administrative excuses are being offered instead of prompt settlement.

The brunt of the clampdown on imports is being felt by Japan, China's largest trading partner and main supplier of vehicles and consumer electronics. The state of the bilateral balance remains a sensitive topic, despite the normalisation of political relations between the former enemies in 1972.

Japan registered a trade surplus of nearly \$6bn last year, according to Japanese statistics. By the end of September the surplus was under \$2.6bn and Japanese companies have been complaining of cancelled contracts. Their demands for com-

pensation have not improved the trading atmosphere between the two countries.

But Japanese officials refuse to regard the latest import surplus as a return of the 1980s, when Japan showed three consecutive trade deficits. "We would not see this as a sudden change in the Chinese economy. The direction has already been set. It is just that the speed has slowed," one official said.

Western European countries and the US, as exporters mainly of machinery needed for China's industrial development, have been less affected by the controls. Indeed, the UK saw its exports to China increase by 30 per cent up to the third quarter. Trade with the Soviet Union and Eastern Europe is said to have increased by more than half as China takes advantage of its clearing accounts with those countries in order to save on foreign exchange.

It is impossible to know whether the targets for this kind of trade are really being hit. One East European estimate suggests that 60-65 per cent of the quotas are actually filled, but there has been a visible increase in the number of Polish and Russian cars on the streets of Peking.

China has just signed a \$600m barter contract with the Soviet Union for power generating equipment—the largest such agreement since the two big Communist nations fell out at the end of the 1950s. Other power-equipment deals have been signed with Eastern Europe, particularly Czechoslovakia.

On the export side of the ledger, China has managed to

achieve an impressive increase in sales of textiles (now supplanting oil as the leading export commodity), grain and machinery.

Sales of textiles in the first eight months of 1986 were worth over \$4bn. The surge may be explained by the rapid filling of quotas set by trading partners. It may also be checked by further action against imports in the US. Indeed, there is already talk of a serious deterioration in US-China trade relations if China's textiles are restricted again.

China could retaliate by stalling on all bilateral negotiations, including the protracted talks to conclude the investment protection agreement that the US is particularly anxious to get tied up.

The Trade Minister gave a clue to the problem when he said he was anxious to see exporters diversify their sales to the US market. "There is a huge market for our light industry here and we have the ability to fill it," he said.

He gave as examples sports shoes, climbing boots, machinery and electronic goods. "The US wants black-and-white televisions," he said.

The same devotion of authority that has helped Chinese exporting companies respond to stimulus from the top may account for the authorities' failure on the other side to stem the flood of imports. For the present the books are being balanced, if precariously. But it is not plausible to suppose that Chinese industry can cover the export gap for long.

Christian Tyler

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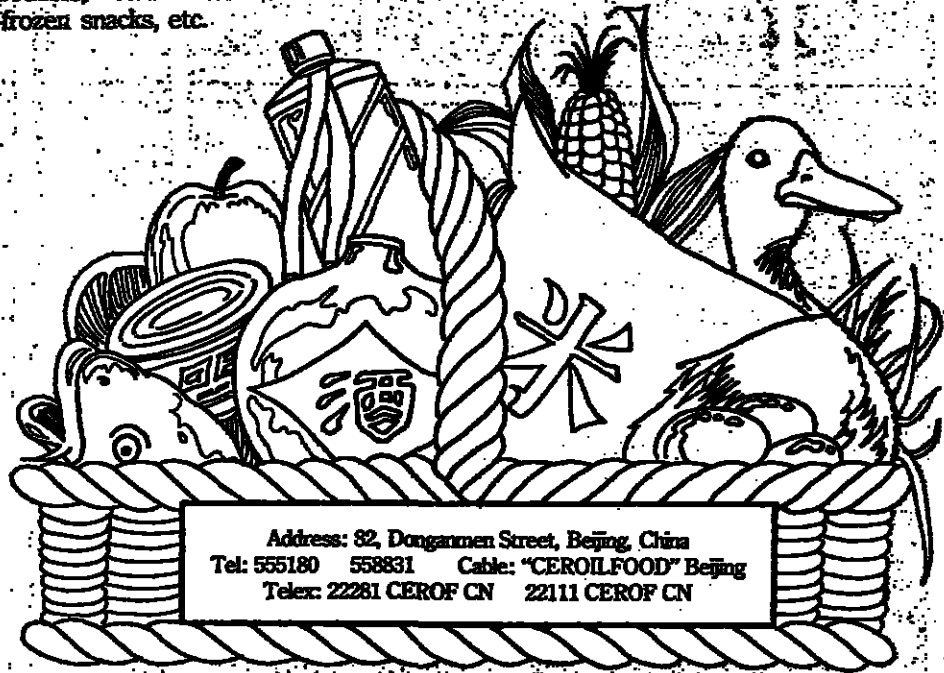
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How to save a drowning man in a 35-knot crosswind



Rescue work at sea is seldom done in fine weather and calm seas. That's why the United States Coast Guard demands stringent requirements for their helicopters, including stability in flight—even in strong crosswinds—and protection against potential tail-rotor accident hazards. To meet the Coast Guard's challenge Aerospatiale used its innovative "fenestron" technology. Advanced technology first introduced in the Gazelle in 1966, technology which has consistently proven performance, stability, safety and reliability. This proven technology has caught the interest of the U.S. Army. The "fenestron" has been requested in the specifications for the Army's next generation helicopter... the LHX. As we see it advanced technology is synonymous with increased operational safety and reliability. This means adapting leading-edge technology to satisfy our customer's needs, which is one reason why the U.S.C.G. as well as fire departments, police units, hospitals, armed forces, and VIPs the world over place their trust in Aerospatiale... the world's leading helicopter exporter.

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Japan trade

Partners kiss and make up

ON THE streets of Peking, billboards advertising Japanese products are back. Earlier this month Yasuhiro Nakasone, Japan's Prime Minister, was warmly welcomed in Peking by China's top party leaders.

This rapprochement may become significant to markets well beyond Asia. China wants Japan to teach it how to become a world-class exporter. Japan, China's largest trading partner, looks poised to help. It could take many years to achieve, but the determination and commitment on both sides is growing.

The Japanese call China "the last billion (person) market." Between 1983 and 1985, their exports to China more than doubled from \$4.9bn to \$12.5bn. Late last year, however, when China's foreign exchange reserves were vanishing at an alarming rate, it became fashionable again in Peking to attack the Japanese.

Deng Xiaoping, the Chinese party leader, said China's \$6bn trade imbalance with Japan was "intolerable," suggesting that regulatory measures be taken against the Japanese.

The outcry proved to be convenient: the central government began severely restricting imports of Japanese consumer and industrial goods, even when they were required for the smooth running of a factory production line.

This year Japan's trade surplus with China shrank by about a third. Chinese officials are now complimentary about Nakasone's efforts to improve relations between the two countries.

The Chinese do not love the Japanese-war memories are still too strong. But today, they see the Japanese as the best potential investors and partners.

Other countries will also be invited to help build China's new industries, but Japan will be willing to lead this pack for a variety of important reasons.

Japanese banks are awash with funds and interest rates are at record lows. Knowledge about China is high, so Chinese who have recently won the right to raise money overseas will find a ready reception in Japan.

Faced with the strong appreciation of the yen, Japan's exporters are also rapidly increasing offshore production

of basic consumer goods. Many are eyeing China as a potential production site, in spite of the relatively high entry costs and shortage of skilled labour.

The Japanese feel they cannot afford to ignore China, because of Japan's lack of natural resources and crowded domestic market. Most are now willing to invest in China for little or no return, hoping to gain the larger plum of one day selling to the entire Chinese market.

"To do business in China, we must be very patient," says the director of international operations for one of Japan's largest diversified electronics groups. He and his domestic competitors know by heart all the big projects being considered in Peking and Shanghai, including power stations, steel mills, railway networks, telecommunications and port facilities.

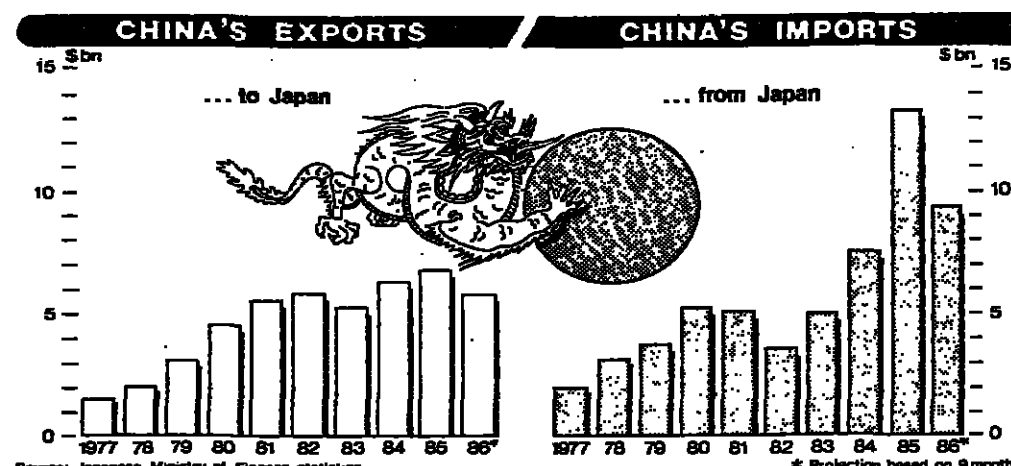
Japan ranks third after Hong Kong and the US in terms of investment in China with \$330m accumulated investments by March this year. This was only \$30m behind the Americans, however, and Japanese officials expect Japan to become number two by next year. Indeed, this year, Japanese companies invested \$13bn abroad overall, so there is plenty of room for expansion.

A 160-person mission was sent from Japan to China in May this year producing 80 feasible joint-venture projects between Japan and China. China came up with another 100 projects. All the proposed companies would export to Japan, according to specific information on price and design supplied by the Japanese side.

Such a series of projects would be of great help to the Chinese, who still have a great deal to learn about product quality and overseas marketing. Some 60 Japanese companies, including all nine major trading groups such as Mitsui, Mitsubishi and C. Itoh are involved in the programme.

The establishment of a joint Japan/China investment bank is being considered, created with public and private funds, to provide cheap financing for Chinese joint ventures.

The Japanese government is considering whether to change the nature of its lending to China. Largely because of war reparations started after rela-



Source: Japanese Ministry of Finance statistics

Exports were normalised in the 1970s, Japan is China's largest supplier of aid.

Japan's Ex-Im Bank is also administering a large energy-related financing programme. It lent ¥420bn in 1979 over five years, with a 15-year pay-back period, with interest rate of under 7 per cent. It is administering a ¥580bn credit begun in late 1984 at 7-7½ per cent over 15 years.

Japan's private sector would like these funds untied from project finance. The Ex-Im Bank is planning to recommend their policy change.

"We have abundant funds," says an official from the Ex-Im Bank in Peking. "We are also positive about China's ability to repay the loans."

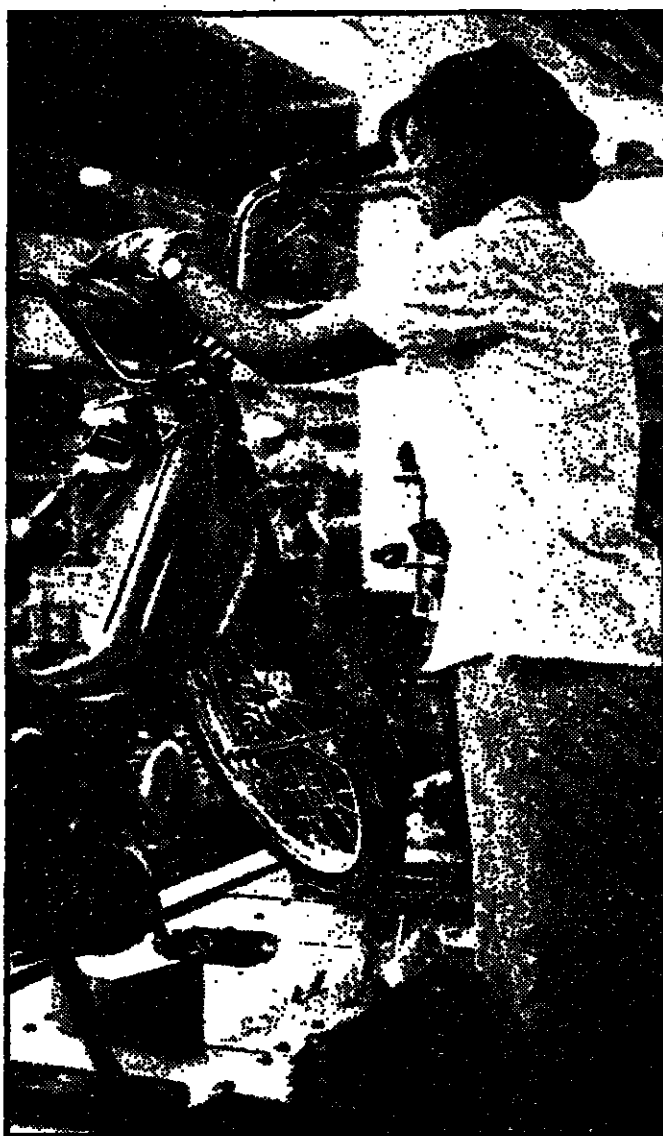
Japan will have to move carefully, however, because other nations will object if funds are offered at cut rates for Japanese projects. Further, the Japanese still have a serious public relations problem in China.

As Professor Zhao Fusan, Vice-President of the Chinese Academy of Social Sciences, explains: "Japan's invasion of China and the whole of Asia is still in our minds. Many still hold a degree of suspicion of what is behind Japan's ambitions and rapid economic growth."

A lot of people think they are deliberately trying to keep China behind. But there are still (good) reasons to suspect that relations between Japan and China can grow."

That may well prove to be an understatement. South Korea's steel industry, which was based on Japanese technology, is now the strongest in the world. If China and Japan can work together, the results could be little short of staggering.

Carla Rapoport



Jailing motors, a joint venture in Chengqing with Honda of Japan

Building on patience

WHILE MOST foreign investment in China tailed off this year, one sector has held firm. Construction projects, mostly of hotels and office complexes, continued to be signed, and in most cases, a Japanese contractor's name could be found.

The names sound strange to those outside Japan, but over the next few years they should become more familiar. If patience and deep pockets mean anything in China, Japanese contractors will play a pivotal role in the country's infrastructure, energy and port developments over the next few decades.

Kumagai-Gumi, Japan's second largest contractor, with sales this year of around ¥780bn (¥4.8bn), is one of those names. Faced with sluggish growth at home, KG has been the most aggressive among Japanese contractors in seeking foreign business.

Thanks to years of experience in Hong Kong (KG was heavily involved in building Hong Kong's underground system), the company started seeking business in China a few years ago. This year, its contracts in China so far total about ¥59bn, equivalent to last year's investment. This is a very not overwhelming, makes KG the largest foreign contractor in China.

Like contractors everywhere, KG's experiences in China cut close to the heartbeat of the country. The reasons for their success, the problems they are encountering and their predictions for the future provide a valuable tool at assessing the business opportunities ahead in China. Their story is not entirely upbeat, but it does show that foreign companies can make headway in China.

Kumagai-Gumi has made some harsh business decisions about operating in China. The harshest is the recognition that it will make very little, if any, profit on any project for the first seven to 10 years of its life. And a number of the projects will revert to Chinese ownership after 10 years.

"Basically we invest in China not only for business reasons but for good relations with China," said Mr Minoru Tokioka, general manager, Beijing office of Kumagai-Gumi. "We hope China will never again be closed," he added.

Although he did not say so directly, the company has an obvious appreciation of the rich amount of contracting business which could be opening up. Because of this commitment, KG has chosen projects with strong government support. In spite of the recent reforms, government support does not

always stem from the profit motive or social welfare concerns. For example, KG's first joint-venture project in Peking, an amusement park, opens early next year. It will be the second amusement park for the city where indoor plumbing is still a luxury and schools and hospitals are in short supply.

A microcosm of this problem can best be found in Shanghai, which appears to be on the road to a mini-glut of luxury hotels. KG officials in Shanghai are openly concerned about the fact that 30,000 new hotel rooms are now under construction or planned to open in Shanghai within the next three years. The hotel projects received strong backing

because of their potential for earning precious foreign exchange and boosting tourism. Due to the parlous state of the city's water and electricity supplies, four of the new hotels are being built about 10 miles from the city's business centre. This

could mean an hour's commuting into town given Shanghai's traffic congestion. Those being built in town will have to purify their own water, as 80 per cent of the city supply is unsafe to drink. Shanghai's taxi network is still rudimentary, while other tourist amenities stretch from basic to almost non-existent.

One of these projects is the Hotel Nikko Longhai, which KG started building earlier this year. The ¥7.5bn luxury hotel has primarily been financed by Japanese investors, including Japan Air Lines, KG and the Industrial Bank of Japan. According to the hotel's project manager, Koji Abe, however, the investors had very little idea of what they were getting into when the project was agreed.

Abe is an energetic man, a chain-smoker who laughs easily. In discussing the problems he is facing with the hotel, he points to the sparse hairs on his head. "It's falling out and turning white because of this," he laughs.

The agreement to build the hotel was made in 1984, he says, without a drawing or a feasibility study. These came later, he says, they are being revised.

The problems include:

- The inability to obtain ready-made concrete in China. All the cement is mixed on the premises. Modern construction equipment is also scarce.
- An almost total lack of specifications for local fire and safety regulations. KG uses Japanese specifications, requiring greater expense and imported goods.
- Strong pressure by the Chinese to use the best materials and systems from abroad. (The hotel reverts to Chinese ownership after 10 years.)
- Lengthy import procedures which take as much as a year.
- Heavy training costs for workers, none of whom have worked on a modern construction site.

"Each task is done by one person and labour is very cheap," says Abe. "But if they do not work, they get the money anyway, and if they work, they get bonus and double their salary."

He says that the site has 600 workers, compared with 150 on a similar site in Hong Kong. "It is a little crazy. But this is my business. I must follow orders," says Abe.

He doubts whether the hotel can make any profit in its 10 years of Japanese ownership. But as his colleagues in Peking point out, profit is not always the point in China. KG, it appears, is building relationships, as well as hotels.

Carla Rapoport

Profile

Kumagai - Gumi

Importing to Shanghai takes about one year according to Japanese construction company Kumagai-Gumi.

1. Submission by foreign company of the amount and details of required imported material to the joint-venture partner.

2. Joint-venture partner applies for a quota to import materials to Shanghai City Council for Finance and Trade.

3. City Council grants permission to joint-venture partner for quota.

4. Shipping documents, invoices, packing list and import application submitted to City Council.

5. Acceptance, ratification and permission for application granted by City Council.

6. Application for import licence submitted to joint-venture company in Shanghai office of Beijing Central Agency for Finance and Trade.

7. The agency in Beijing issues permit for import licence.

8. Application to tax bureau for exemption from taxation.

9. Exemption permit issued.

10. Joint-venture company checks the goods through customs.

11. Foreign company submits application verifying the conformity. Company takes possession of the goods.

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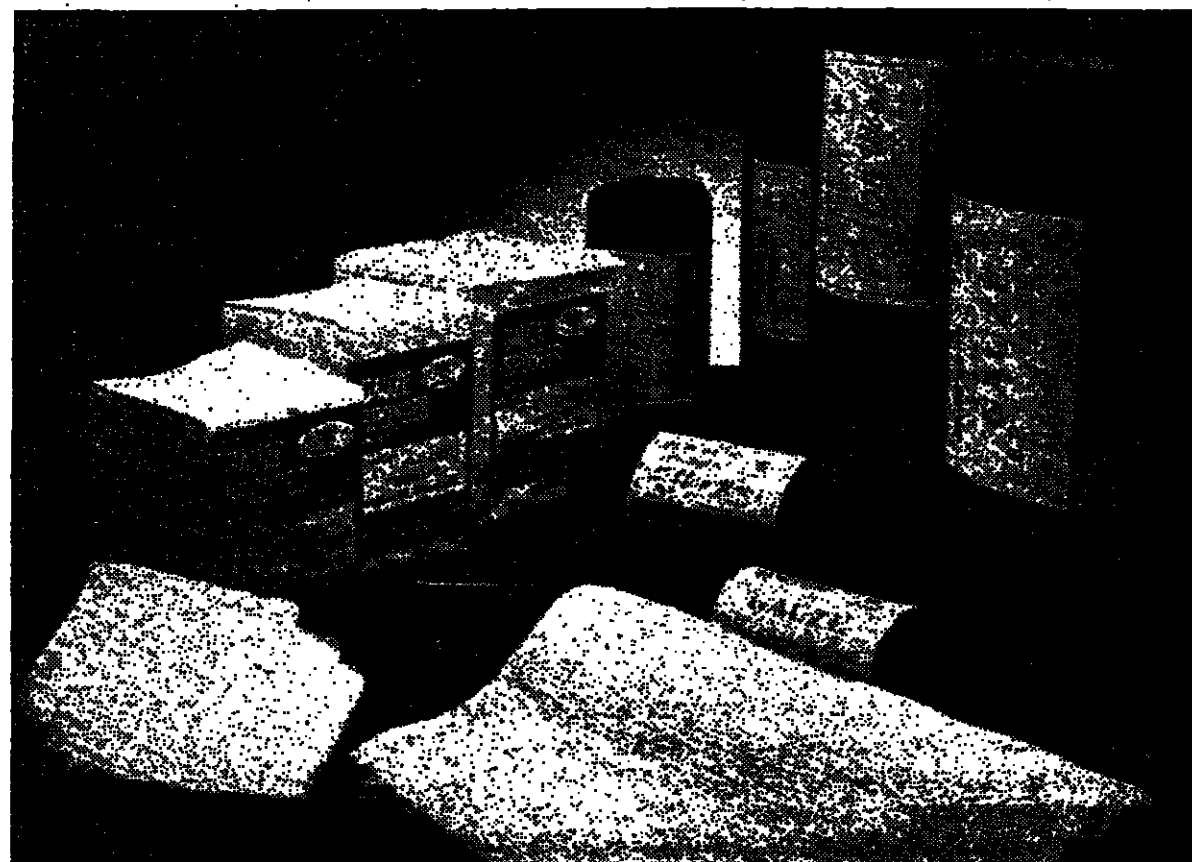
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- Shackles: "D" Type, "BOW" Type, 5 mm - 24 mm
- Rigging Thimbles: 6 mm - 24 mm

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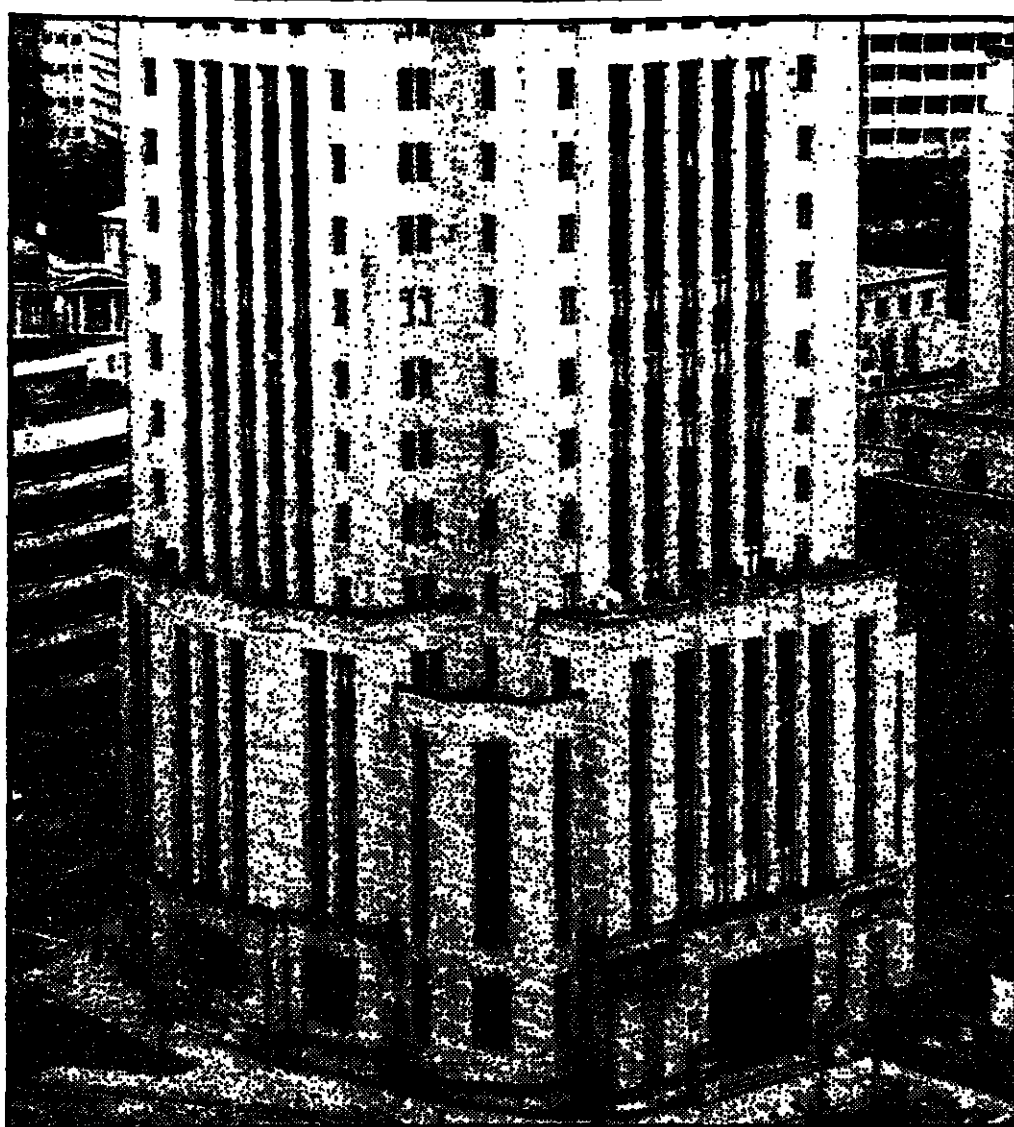
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The Bank of China building in Hong Kong

Hong Kong

The jitters start to ease

HONG KONG may not be the "littery city" it has been claimed to be in recent months, but nor has it been restored to full confidence in a future that will be determined by Peking after 1997.

Officials in Hong Kong, London and Peking insist that great strides are being made. But for the thousands in Hong Kong who fear China's resumption of sovereignty over this anachronistic British enclave, little has been said to provide material comfort.

Gossip is still of the queues to emigrate, of substantial pre-emptive investment overseas, and of a reluctance to invest in manufacturing industry at home.

The emergence of political personalities like Martin Lee QC has provided a voice for many who were frightened or unable to air their anxieties. One British official in Hong Kong recently confided: "During the negotiations, Chinese officials were often very arrogant about Hong Kong. They felt they knew the mood there, and were confident that people were loyal to the Motherland."

"They now realise that it is much more complex. The Chinese are showing more sensitivity, and awareness of the mistrust. They realise that an eight-year track record of opening up to the outside world is not long enough."

There are widespread signs of China's growing sensitivity. Over the past year, no official has rattled sabres in public over the pace and direction of political reform. Such occurrences were frequent between 1982 and 1985, and always fomented confusion or anxiety.

Instead, Hong Kong has seen a steady flow of Chinese working groups who have bent over backwards to glean a wide spectrum of opinions, and resisted pressure to pontificate. The Law Drafting Group headed by Lu Ping that visited Hong Kong

in January was an example.

One senior Chinese official in Hong Kong claimed: "We do not expect people in Hong Kong to like socialism—all we hope is that they will be good Chinese."

Cryptic though the message is, it illustrates Peking's awareness of mistrust, and may give encouragement to some who expect Peking to interfere in the territory's affairs.

Scenarios say Peking will never properly understand the "liberty without democracy" that has prevailed in Hong Kong. It is a liberty backed by Britain's democracy, if not its own, and by a dispassionate and meritocratic civil service—and many wonder how China will provide such backing after 1997.

Martin Lee asked: "Can we be sure our freedoms will be safeguarded by the National People's Congress (NPC) in China, which has a Communist system and where the Communist Party is in practice above the law?"

There are still many people in China who are imprisoned without trial, which is against the laws of China, yet questions are never asked in the NPC about such government abuses.

Pessimists can look to recent events and ask how they would be handled, in post-1997 Hong Kong. These include the annual inquisition of top Hong Kong Government officials by the territory's Director of Audit; the seizure and fine handed out to the Commissioner of Police for the manner in which an arrest warrant was exercised; and the censure of a senior judge by an Appeal Court panel for having directed the views of a jury.

Even more evocative has been the fierce public debate over Hong Kong government acquiescence to China's Daya Bay nuclear power station, to be built 25 miles away. The outrage in Hong Kong triggered by the Chernobyl nuclear accident in the Soviet Union contrasts starkly with the quiescence in

cities near Daya Bay on the Chinese side of the border.

Opponents are upset not just that their demands were over-ruled, but that careful news management in the mainland prevented the controversy from spilling over into China. They ask what this signals for Press freedom after 1997.

For the time being, the main focus of political controversy is the review next year of political reforms since 1984. This precedes local elections in 1988 and is intended to determine whether the territory's electorate wants to move towards a more full-blooded form of democracy, and how such changes could be achieved.

Hong Kong's once-consensual political leadership has been split on the issue. Conservatives argue that Western-style direct elections would open a Pandora's box. They say the Government would come under irresistible pressure to respond to populist demands that would hobble the territory's free-wheeling economy.

They say that adversarial politics would lead to the creation of political parties, which would force China to allow the Communist Party to enter the political fray. Once this occurred, there would be no question who would win the political battles in the territory's governing bodies after 1997.

Advocates of greater democracy argue that this is likely to be the only true defence against encroachment by Peking after 1997. They attack those who defend the autocratic status quo as jeopardising this defence in order to preserve their existing privileges.

Martin Lee argued that the rule of law is about to be supplanted by the rule of the elite, an "oligarchy of the rich." He says that if Hong Kong's business leaders cannot trust the territory's ordinary people in a one-man one-vote political system, then ordinary people have

Major Trading Partners

	1985	Export	Import
		\$bn	\$bn
Japan	5,962	14,150	
Hongkong & Macao	7,196	4,646	
US	2,254	4,915	
EEC	2,171	5,788	
UK	343	705	
West Germany	707	2,225	
France	214	693	
Italy	282	673	
Canada	227	1,119	
Australia	192	1,077	
ASEAN	2,764	1,077	
Singapore	2,039	226	
Middle East	551	168	
Socialist Bloc	2,199	2,898	
Soviet Union	968	949	
Brazil	410	944	
Total	26,460	40,260	

Source: China Newsletter

no grounds to trust them. It would be a "government by the rich, of the rich, for the rich."

"I attach greater importance to the preservation of our freedoms than to the preservation of our prosperity because not everyone in Hong Kong has a share, nor the same share of our prosperity—but we all cherish our freedom whether rich or poor," he said.

Such an argument from a member of Hong Kong's Legislative Council would have been heresy even two years ago. Officials defend the existing system that rewards effort and initiative handsomely at the price of providing minimal support or protection to the community's underprivileged by arguing that this encourages the flexibility and dynamism that has made Hong Kong prosperous.

Martin Lee's argument is flawed by the fact that Hong Kong's Government is already in effective terms an "oligarchy of the rich." Possible abuses have been checked by the dominant role played by a dispassionate civil service moulded around a British model. The more useful question might be how the integrity of this is to be preserved beyond 1997.

Officials in Peking incline to defend the status quo—no matter what the contradictions with Mao Zedong thought or Communist Party dogma—because they are fearful of killing a goose that they hope will lay golden eggs for them after 1997. For them, prosperity probably comes before freedom, and here they would part ways with the likes of Martin Lee.

For its own part, Peking is busy preparing the Basic Law—effectively the constitution that will put flesh on the bones of the Sino-British declaration. Fearful that its ideas will be preempted by political reforms under the existing colonial government, they have brought forward to 1988 the date when a first draft of the agreement will be completed.

Officials in Peking have claimed rather disingenuously that what the Hong Kong Government does in next year's political review has nothing to do with them, and has no bearing on their drafting process. Behind-the-scenes pressure has, nevertheless, led Hong Kong and British officials to talk about a need for "convergence" of plans.

Most argue it is being consensual on the issue of elections, with a consensus emerging that about 25 per cent of legislative council members are likely to be elected directly in 1987. Ahead lie controversies over the election of a chief executive, who would take over the role of the present governor, and over the suggestion that Legislative Council members should have ministerial responsibilities.

Over the next two years, so political activism in the territory has reached an unprecedented pitch. So far this has not spilled over into any major destabilising controversy, though this is perhaps more a result of luck than judgment.

Over the next two years, strewn with political reviews and increasing activity by Peking's law drafters, political interest and activity is likely to be heightened further. The risk of Hong Kong becoming a "littery city" remains real.

David Dodwell

Ventures in Japan

Joint schemes generate frustration

THE LINOLEUM floors are cracked, the pictures on the walls are painted by the chairman's father, the meeting room is furnished with large chairs upholstered in imitation leather and covered with antimacassars.

An office in China? No, this is the heart of Takahashi Plastics, a major Japanese plastic modelling company, in the suburbs of Nagoya, Japan. However, it is the head office of T. D. Mold Center, a Chinese joint venture in Japan.

The Chinese have very few overseas joint ventures. T. D. Mold is believed to be the largest in Japan, with sales this year of just ¥500m. In spite of its size, however, T. D. Mold offers a rare, if not very encouraging, glimpse at the problems of Chinese joint ventures.

The president of both the joint venture and Takahashi Plastics, Mr. Shigetoshi Takahashi, is the forthright eldest grandson of a self-made man. During the Japanese occupation of Manchuria, his grandfather operated a factory in Dalian, a city in the south of what was then Manchuria. After the war, he and Takahashi's father built up the plastics business back home in Nagoya. The company now specialises in high-tech plastics, particularly ultra-slick

motorcycle and automobile parts.

His grandson renewed the family's contacts in China during the last 10 years by making frequent trips to Dalian. A few years ago he was asked to form a plastics joint venture with the Dalian Second Bureau of Light Industry. After considering building the plant in China, the two sides decided on the Japanese location for two reasons: first to accelerate the transfer of technology to China, and second to ensure a speedy settlement of accounts on the Japanese exchange earned and spent by the company.

The plan was to bring over 50 Chinese workers who would work alongside an equal number of Japanese making simple plastic parts for vacuum cleaners and television sets. These parts would be exported (mainly to China) or sold in Japan. Once trained, the Chinese workers would return to Dalian to train others.

Much of this plan has yet to be realised. The Japanese government would not issue work visas to Chinese, only short-term "trainee" visas. As a result, only seven are working in Japan. Further, Takahashi found that the Dalian workers, supplied free by his Chinese partner, were hard to

train.

He admitted that he could not make these observations in China. But seated in his Nagoya office, he felt able to vent his frustrations.

Beyond the language problem (the trainees are meant to learn Japanese), Takahashi says attitude is the major stumbling block. "I don't think Chinese workers understand the market mechanism. I mean the simple principle that a good product sells well and a bad product does not."

The Chinese (workers) think their products are as good as those in the US or Japan, so they don't have an incentive to make better products.

Even though T. D. Mold manages to pay dividends to its Chinese partner in precious foreign currencies, Mr. Takahashi calls the venture a failure. This is partly because of the Japanese government failing to grant work visas and partly because of the difference between his perception of China and the real China, he says.

"We didn't know what we were dealing with when we started," he says. "Chinese workers are cheap, but their personal cost is only one factor. Even if all 50 workers had come as planned, we would not have

been successful because of their low quality work."

The only success of the joint venture is some technology transfer. The company introduced the plastic volume control knob for televisions in China. Now this is manufactured in a Chinese plant near Dalian.

Having a Chinese partner, however, gives the company no added benefit when it comes to selling products to China. T. D. Mold's exports to China have stopped this year. Even though the company has a Chinese partner, it was unable to receive payments for its exports to China earlier this year.

"Now we sell in Japan or export to countries without this risk," Mr. Takahashi says. "China's intention is not so much to get products to China, but to earn foreign exchange. Officially, we are supposed to smooth technology transfer and export goods, but the bottom line is only foreign exchange," he says.

Long-term, he is not overly optimistic. "The difference between China and other countries in their political and social systems is the greatest problem we have in terms of trade with China," he says.

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China 18

Hong Kong trade

Door opens to prosperity

UNDER Deng Xiaoping's open-door policy, no door could have been held more open than that to Hong Kong. In 1976 China ranked 46th among Hong Kong's trading partners; today, it ranks first.

The changes in China have had a potent impact on the British territory. It has sustained Hong Kong when other economies have suffered from stagnating world trade, reasserted its importance as an entrepot for China after decades of growth based on local manufacturing activity, and provided the impetus for growth in banks, trading companies, and other service industries seeking opportunities on the Chinese mainland.

Between 1978 and 1985, Hong Kong's domestic exports to China have grown from HK\$31m to HK\$15.2bn—a compound growth rate of 111 per cent a year, putting China second only to the US as a buyer of local products.

China was always an important source of food and water to Hong Kong, but has soared as a supplier of a wide range of consumer and semi-manufactured goods. Exports to Hong Kong amounted to HK\$2.9m when Deng Xiaoping cracked the economy's doors open. Last year, sales to the British territory amounted to HK\$58.9bn, outstripping even Japan.

A more striking measure of China's re-emergence is the growth of entrepot trade through Hong Kong. Re-exports to China—a direct measure of the growth in China's imports—have risen from HK\$214m in 1978 to HK\$46bn last year. Chinese goods re-exported through Hong Kong amounted to HK\$34.6bn last year, compared with HK\$3.7bn in 1978.

The rapid depletion of foreign exchange reserves that prompted Peking into calling a sudden halt to many imports had a dampening effect on entrepot trade in the early part of this year. But this shows signs of changing, with recent trade statistics suggesting a sharp rise in domestic exports from Hong Kong, and in re-exports passing through Hong Kong into the mainland.

Mr Piers Jacobs, Hong Kong's financial secretary, said that while Hong Kong's exports to China had grown by 6 per cent in the first nine months of 1986 compared with the same period in 1985, the third quarter alone showed a 35 per cent leap in value terms that contrasts with real falls in the first half of the year.

It is not Hong Kong alone that

has benefited from this trade growth.

Inside China, it is no accident that Guangdong province, which embraces Hong Kong on China's southern coast, has this year overtaken Shanghai and Liaoning to become China's leading exporter. The province's foreign sales are expected to amount to US\$3.5bn—about 50 per cent above the 1985 total.

Virtually every township in the Pearl River Delta that forms Hong Kong's hinterland has major manufacturing investments from Hong Kong—all made since 1979. They rely for most of their export earnings on sales to Hong Kong, or processing fees for Hong Kong manufacturers.

Dongguan, for example, about 50 miles north of Hong Kong on the main road to Guangzhou (Canton), boasts more than 1,600 factories employing more than

100,000 workers which process goods supplied from Hong Kong. Processing fees last year earned the city US\$68m, about 40 per cent of exports totalling US\$168m.

It is rarely realised just how deeply into China that Hong Kong's economic roots stretch—or how important a stimulant the tiny British enclave is to inland provinces that have been virtually cut off from the outside world for 35 years.

The fertile provinces stretching along the banks of the Yangtze river, like Hubei, Anhui, Hunan, Jiangsu and Zhejiang, are all prominent exporters of food products to Hong Kong. Hubei, for example, earned US\$45m last year from sales of food products to the British territory—about 10 per cent of the province's total foreign exchange earnings.

At a time when Peking is urging Chinese peasant farmers to diversify into cash-crop production, access to the Hong Kong market has provided an invaluable outlet.

While many have seen China's open door as a panacea for Hong Kong manufacturers, there has been an equal number who have suggested that rapid trade growth with the mainland is at best a mixed blessing. They

have four main concerns:

• Double counting—a substantial proportion of the semi-finished goods being exported to China from Hong Kong are being re-exported days or weeks later after being processed in a mainland factory. Products that are Hong Kong exports to Europe or the US, are thus being double-counted—neither genuine exports to China, nor genuine Chinese exports to Hong Kong. Government officials claim to have no measure of the scale of this double-counting but it is substantial.

• Value-added—unlike buyers in the US market who buy from Hong Kong high value-added products such as garments, which provide generous profit margins, Chinese buyers tend to want cheaper products which offer lower profit margins. Gross export growth may be substantial, but the profitability of sales in China can be questionable.

• Technological sophistication—Hong Kong manufacturers, particularly those in the electronics sector, have been able to fall back on steady sales of low-technology products into China. As a result, they have not been forced to upgrade technology in the way that producers in South Korea or Taiwan have been forced to do to keep their share of the competitive US market. What has been a short-term boom may prove in the longer term to leave Hong Kong two or three critical years behind its most important competitors.

• Entrepot trade—many are concerned that buoyancy from rapid growth of service industries linked with growing trade with China will disguise stagnation or decline in the territory's manufacturing sector. They argue that if manufacturing industries atrophy, then the service industries that are now expanding so rapidly will have no solid foundation from which to build, and will wither as banks, trading companies and the like move elsewhere.

None of these worries should be built up to suggest that Hong Kong should once again turn its back to mainland China. With 1997 fast approaching, this would be an absurd aim anyway. But if the worries are taken into account, and Hong Kong's manufacturing sector can remain as dynamic as it has for the past decades, then the territory is likely to remain a potent force in world trade in its own right, as well as an invaluable conduit for China's export-led modernisation plans.

David Dodwell



Vietnamese refugees who make up the fishing community at Xingang

Refugees

Vietnamese fishermen find safe haven

THE BUSTLING port of Xingang on the Beibu Gulf provides the perfect example of how a long-established fishing community has found prosperity by turning to exports.

According to Pang Guanyen, deputy head of the Xingang council, the township's annual income per capita of 807 yuan is more than 20 per cent higher than for Guangxi province as a whole. A considerable number of the fishing community's inhabitants are earning 2,000 yuan a year and one fisherman claimed to have earned 20,000 yuan plus last year—a fortune by Guangxi standards.

Pang claims that every boat in the harbour is owned by a fishing family from Xingang. The community's success is doubly remarkable, because 10 years ago neither the port nor the community existed and not a single one of its members was living in China.

All were refugees who fled from north Vietnam in 1978 and

1979 when Hanoi initiated programmes against overseas Chinese. Some crossed the border into Yunnan and Guangxi provinces on foot, but those with access to boats made for the port of Beihai, less than 125 miles from the north coast of Vietnam, and a stone's throw from Xingang.

Xingang is China's largest and most prosperous refugee settlement. Most of them were already fishermen, or came from a fishing background. Many brought their own boats. To leave by sea would be easy, but not one of them has tried to run away, says Raymond Hall, of the United Nations High Commission for refugees in Peking.

The township's success was recently acknowledged by Deng Xiaoping. China's paramount leader, when he paid a brief visit to the community, and the port has even attracted Vietnamese refugees settled elsewhere.

Xingang is not typical.

however, of China's Indochinese refugee settlements. Scattered over 100 locations in the provinces of Guangxi, Guangdong, Yunnan and Fujian, many of the 283,000 refugees who fled to China are living at subsistence levels on state farms and forestry enterprises.

Ten years after they arrived, about 20 per cent of China's total Indochinese refugee population—an estimated 56,000—have been unable or unwilling to adapt to the rigours of life in the Chinese countryside, bawling, drunkenness and refusal to work is typical.

According to Mr. Hall, problems arise when those used to a life of petty trading or working in industry are called on to engage in agricultural production, or when they have relatives in the West who send them remittances, often greater than their own salaries. In such cases the authorities have given up trying to make them grow rice. Life is made more difficult

because many refugees have a large number of dependents in a China that has for some time geared itself to a two-child system in the countryside. Some refugees had lived in Vietnam for as long as 13 generations and speak no Chinese. A minority want to go back home.

But for the 80 per cent estimated to have adapted Peking and the United Nations have done much to alleviate the difficult transition.

Over the last eight years, Peking claims to have spent US\$650m on providing training, jobs, housing and food for the refugees, while the UN and the World Food Programme have spent a further \$100m over the same period. This year alone, Peking is to provide \$26m in living subsidies, while the UN's budget is \$2m many of the state farms where refugees are housed are losing money, ranging from 600,000 yuan to 200,000 yuan a year, and these losses seem set to continue for some time.

This massive injection of cash into the world's second largest Indochinese refugee programme has been a considerable financial burden on China and has been little recognised in the West, according to Mr. Hall, who says that many of the refugees are now beginning to adapt.

Peking's decision to shift to a family farming responsibility system, to encourage private trading, and a sharp increase in agricultural sideline and processing industries, are likely to benefit a population which has generally not taken to agricultural labouring.

The future for the majority of China's refugees seems rather better than the 4,300 living in closed camps in Hong Kong, with little prospect of being found a home in the west.

Richard Cowper

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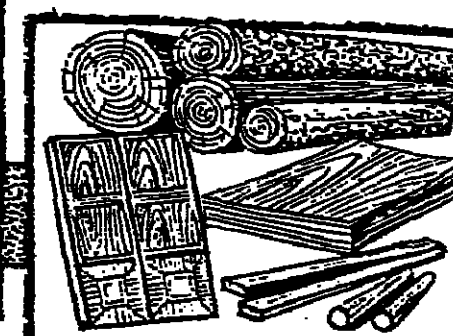
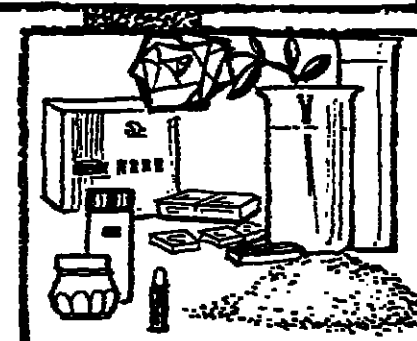
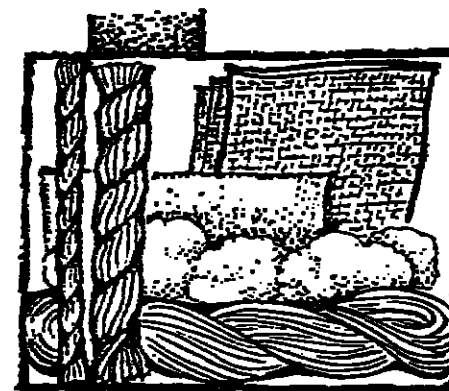
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Investment in Hong Kong

Blind eye turned to rising tide

ASK ANY BANKER, economist or China specialist in Hong Kong how much China has invested in the British territory, and the politest response you are likely to get is a perplexed shrug.

All know it is colossal—just as they know that investment by Hong Kong Chinese inside the mainland accounts for the lion's share of all foreign investment in China. But the task of putting a figure to it seems to have baffled even those who have tried in earnest.

There are strong political reasons for turning a blind eye to mainland investments in Hong Kong. What Peking would describe as underpinning "stability and prosperity," others less sanguine about Peking's assumption of sovereignty in 1997 would see as a clandestine Communist "takeover."

A Hong Kong Government study of foreign investment in the territory's manufacturing industry in 1985 tantalisingly lists investments from 36 countries ranging from the US and Japan to Afghanistan and the Virgin Islands—but excludes any mention of China.

Government officials admitted that it had not been considered timely to take a magnifying glass to China's investments, though the official argument has always been that China's presence is so diffuse that it defies measure.

Diffuse or not, there are numerous symptoms of an increasing mainland presence in the territory. The Hong Kong General Chamber of Commerce recently estimated that 140 mainland enterprises had an official presence.

Companies like Conic, once Hong Kong's largest electronics manufacturer, have been taken over by mainland interests. Highly publicised sorties into the local property market—like the abortive HK\$1bn deal by Mr. Wang Guangyong's Peking-based trading group, bright industrial to buy a residential property development from International City Holdings, have illustrated that it is not just Hong Kong entrepreneurs who like to put capital into bricks and mortar.

Guangdong Enterprises, perhaps the most dynamic of more than 50 provincially-linked trading companies in Hong Kong, also complements its export operations with investment in both property and manufacturing industry in the territory.

More recently, the rescue of Kah Wah Bank by the China



A Hong Kong toy factory joint venture in Shenzhen special zone

International Trust and Investment Corporation (CITIC), and the role played by Mr. Henry Fok providing US\$120m (thought to be Chinese capital) to assist in the rescue of the C. H. Tung shipping group, shows that Peking is willing to pay hard cash to prevent undue erosion of confidence in the British territory.

Other clear evidence of China's growing impact on the economy is seen in the expansion plans of the 13 "sister banks" that operate under the umbrella of the Bank of China. Almost all of the banks have increased their capital base in recent months. Those that are locally incorporated have begun to lay plans for listings on the local stock exchange. All have been expanding their branch networks at a time when most banks are being forced by severe competition to reduce their retail banking presence.

The Bank of China group admits to having made small

industrial loans in Hong Kong amounting to HK\$2.4bn in 1985—up from HK\$1bn in 1983. In addition, it has lent HK\$100m since 1984 to Hong Kong businessmen for investment in China.

The group—called the zhongying/juan in Chinese—is also turning with increasing frequency to Hong Kong's embryonic capital market to raise funds for China's development. "Sisters" like the Bank of Communications is trying to build up an expertise in merchant banking and capital markets operations, and it is widely believed that the market is unlikely to acquire any real depth unless it develops to become not just Hong Kong's but China's capital market.

China resources, the general trading agency in Hong Kong for Peking's Ministry of Foreign Economic Relations and Trade, also admits to substantial investment in electronics, packaging, warehousing, and retailing businesses in Hong Kong, as well as ownership of

restaurants and supermarkets. Mr. Tong Zhiguang, China Resources' president, said recently: "We will base ourselves in Hong Kong, rely on the abundant resources of the mainland, and move into the international arena."

The group employs 5,600 staff, has 26 operating subsidiaries, more than 100 joint ventures, and says it will handle trade worth HK\$7bn this year. Since 1985, Mr. Tong says the corporation has invested HK\$300m of its earnings in manufacturing ventures on the mainland, but makes no specific mention of similar investments in Hong Kong.

China Merchants' Steam Navigation, backed by Peking's Ministry of Communications, also has substantial Hong Kong investments—including a significant holding in one of the territory's smaller banks—but has been concentrating more of its resources on the development of the nearby Zhuhai Special Economic Zone.

David Dodwell

CHINA

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Hong Kong investment in China

Province feels impact of potent neighbour

TRACKING Hong Kong's investments inside China is equally fraught, though it is generally acknowledged that Hong Kong Chinese entrepreneurs account for more than 60 per cent of foreign investment in dollar terms and almost 80 per cent in terms of the number of projects agreed. Officials in Peking say total investment commitments since 1979 amounts to US\$17.4bn.

It is in Guangdong that Hong Kong's impact is most potent. Dongguan, a typical city in the Pearl River Delta that forms Hong Kong's hinterland, boasts 1,600 factories involved in processing for Hong Kong companies. More than 1,000 managers work in the city from Monday to Friday, and Hong Kong-linked ventures account for more than 100,000 jobs in the city. Earnings from processing fees last year amounted to US\$66m.

Municipalities like Foshan and Taishan can make similar claims. It is estimated that a total 15,000 factories in Guangdong are manufacturing for Hong Kong companies. They account for more than 650,000 jobs, and foreign exchange earnings of more than US\$300m. As a measure of this trade, more than 7,000 lorries a day are crossing Hong Kong's land border with China laden with merchandise. A decade ago, the figure was more likely to be 7,000 a year.

In addition to Guangdong, inland provinces much further from Hong Kong count the territory as their single most important investor. Figures recently gleaned by foreign bankers from various banking sources inside China show Hong Kong investors accounting for the majority of equity joint ventures not just in nearby Guangdong, Fujian and Guangxi, but in more distant areas like Shanghai, Tianjin, Peking and Liaoning.

In addition to these investments, an increasing number of China's Huaguo, or overseas Chinese, are making donations to their ancestral villages or

townships—many from Hong Kong. The recent US\$20m contribution by shipping and property bills to fund Sir Yue-Kong Pao towards a university in his hometown of Ningbo in Zhejiang is but one extreme example of this trend.

Guangdong, again the main beneficiary of such donations or remittances because it accounts for about 70 per cent of the estimated 30m Chinese living outside mainland China, is understood to have gained 2,000 schools, 100 hospitals, scores of bridges and hundreds of miles of road.

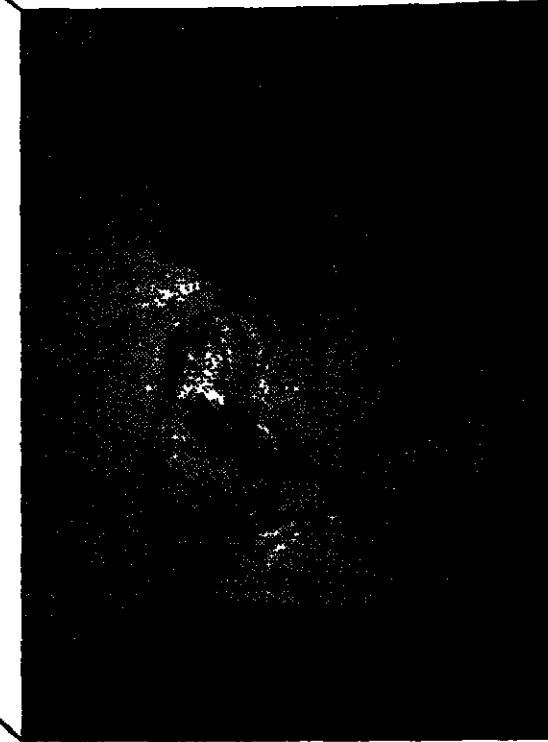
Just as Guangdong has been the main beneficiary of investment from Hong Kong, so it has been the first to feel the cold winds of foreign disenchantment as joint ventures have run into difficulties. Provincial officials revealed in August that 70 per cent of all ventures in Guangdong faced difficulties balancing their foreign exchange. Equally disconcerting was the revelation that 90 per cent of foreign exchange being generated by joint ventures was coming not from exports, but from domestic sales.

The thousands of "compatriots" from Hong Kong, who still are the most probable future investors in Guangdong, were leaving the authorities in no doubt about the dim view they take of the current investment climate. If latest investment figures are any guide, these "compatriots" have voted with their feet. Foreign investment commitments for the first nine months of 1986 were US\$2.4bn—some 42 per cent down on commitments during the same period in 1985.

It is probably no accident that it was in Guangdong that details emerged of the new "22-point incentive plan" aimed at improving the flagging investment flow. A verdict has yet to be given, but it is almost certain that Hong Kong businessmen will play a large part in determining that verdict.

David Dodwell

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P R E S S F O R A C T I O N

Ningxia

Silk road into a third world

AS EGYPT depends on the Nile, so Ningxia, China's smallest province, depends on the Yellow River. The parallel is closer yet, for a third of Ningxia's 4.1m people are Moslems, some claiming descent from Arab traders who came over the Silk Road or by sea from 700 to 1300 AD. The "autonomous" region has in recent years resumed commercial ties with the Arab world.

Bounded by the stony deserts of Inner Mongolia to the north, a man-made oasis of almost 2m square miles criss-crossed by irrigation channels dating back 2,000 years, provides Ningxia with an exportable surplus of rice and grain in spite of the harsh climate.

In the mountainous south the Hui Moslems are the impoverished majority, with a yearly income per head of only 130 yuan (\$26), barely twice the monthly wage of city dwellers in other parts of China, and less than a third that of Ningxia's own river valley farmers.

Partly because of embarrassment about the poverty Ningxia was closed to foreigners until three years ago. According to an English journalist who visited the area recently, former mountain dwellers tell gruesome tales of incest and cannibalism.

Today the regional authorities are proud of their efforts to improve the lot of the poorest Hui, and can demonstrate that repression of the Moslems is a thing of the past. The Moslems rebelled in 1938-42 against the Chinese Nationalists, who they say were bent on genocide. During the Cultural Revolution both Hui and Han (Chinese) suffered, but most of the 1,800 mosques were destroyed, or turned into offices, factories or apartments.

"There were no services for 10 years," said Haji Ismail Mu Yilan, venerable chairman of the region's Islamic Association. "But our beliefs stayed the same."

The call to prayer may have been silenced, but more than 2,000 mosques are being rebuilt and Moslems can take Friday off to worship. The state permits each Moslem only one wife, but two or three children against the one allowed to Chinese. There are separate Moslem restaurants and schools and a college for the study of the Koran funded by the Islamic Development Bank.

In theory, Hui could eventually outnumber Chinese: in practice, say the Hajs, they will



Modernisation in the Provinces

China's vast territory takes in delta, mountain, plain and desert, all with sharply differing problems. In this section FT correspondents look at a range of provinces and cities to see how local officials carry out Deng's economic reform and whether their actions are proving effective.

voluntarily limit their families as living standards rise.

The standard of living has certainly gone up for one Hui family in Wuzhong county south of the capital Yinchuan. Ma Jingsho is a farmer turned building contractor who with five of his six children lives in a new compound in a village of mud houses. Ma (a common name among Hui, said to be an abbreviation of the Prophet's own) is the egregiously rich "peasant" that visitors are taken to see as proof that the new policies work. He claims he had a net income of 40,000 yuan last year (153,000). The people across the road make about 500 yuan (£100).

"China is part of the Third World, and we are part of Chi-

na's Third World," said Yang Huiyung, a woman vice-chairman (governor). Yet Ningxia claims to be growing at 8.5 per cent a year, faster than the average for China as a whole, helped by its Arab connections.

Kuwait is on the point of lending \$15m at a preferential rate of interest for a 1.6m yuan steel-reinforcing alloys plant in Yinchuan. Egypt's state bank has set up a joint investment trust company capitalised at \$40m and due to start up next year. The Islamic Development Bank is funding two institutes, and Ningxia has sent 1,000 workers to Egypt and North Yemen for construction projects.

The region has United Nations support for forestry, agriculture and technical research, while the World Bank

has provided grants for the university and for an "Open University" of the air.

As well as developing technical co-operation with the four other minority regions of the North-west, Ningxia has been helped along by its eastern neighbours.

For example, Shanghai is reportedly putting up 80m yuan to develop the aluminium smelter. Present output of 32,000 tonnes a year is due to be raised to 50,000 tonnes and later by a further 100,000 tonnes. Zhejiang province is involved in a venture for producing Moslem food. Guangdong province in outdoor shoes and Beijing in fashion shoes. All these products will be exported back to the markets of the east.

The national Government is said to have provided 8.2bn yuan this year, compared with 7.5bn yuan last year for projects that will benefit the country as a whole. Investment by the region for its own improvement is less than half that.

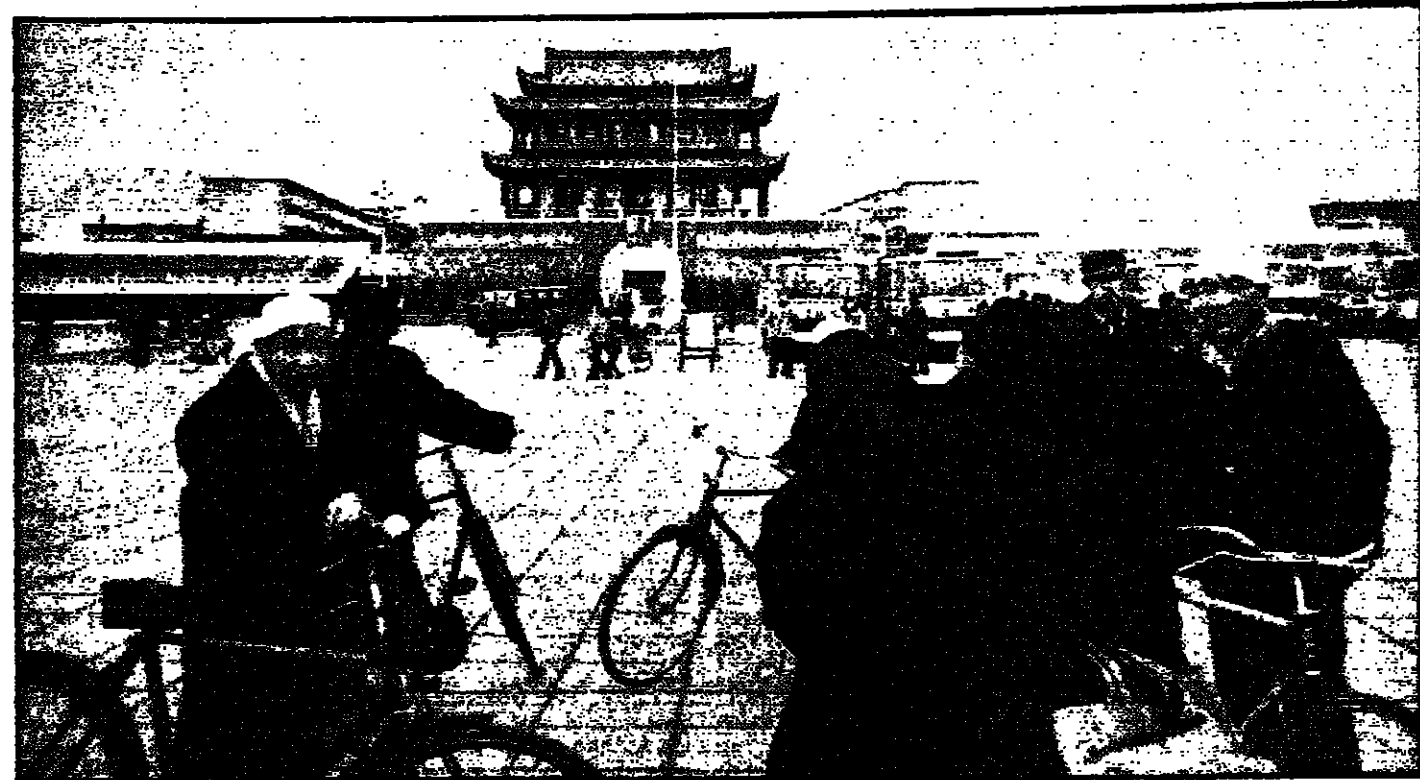
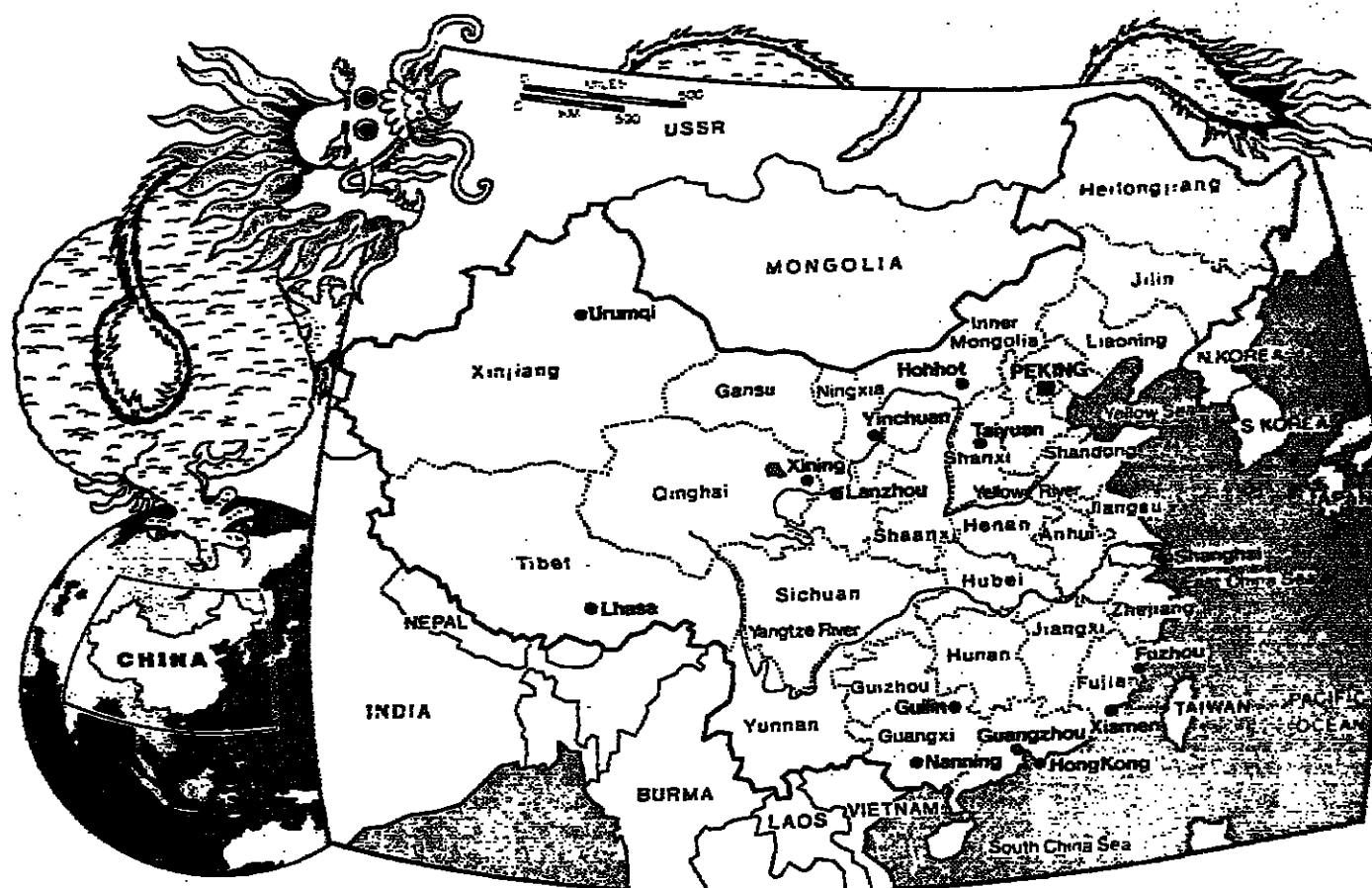
Nevertheless, according to officials, industrial output, at 25bn yuan this year, is already two-and-a-half times the value of agricultural output. Heavy industry accounts for the bulk of it. The chief industry is chemicals—ammonia, rubber and fertilisers. About 12m tonnes a year of coal is mined from deposits that are said to be the fifth largest in the country.

Most of the region's 700MW of installed electricity generating capacity is based on thermal power stations: the main hydroelectric scheme is further upriver in Qinghai province. Another 20MW is to be added next year, which will allow Ningxia to sell electricity to the national grid for the first time.

For all their disadvantages, the people of Ningxia appear cheerful and versatile. The capital is grandiose for its size, but pollution-free. In the main square with its Ming Dynasty pavilion ("little Tiananmen square," they call it) old Hui street traders wearing white skull-caps and wispy grey beards are jostled by teenagers more fashionably-dressed than in Peking.

Even the peasants have made profit out of hardship; the black moss that they used to scrape up for extra protein is now sold as a tonic to Chinese all over the world, merely because its vegetable name has a second meaning in Chinese—"good fortune."

Christian Tyler



Hui Moslems (above and top left) in Yinchuan, capital of Ningxia.

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Young monks outside Ta'ersi monastery near Xining.

Qinghai

Wild West of the East

WHEN CAMEL hump, yak meat, gazelle and mutton all appear on the same menu, you know you're in Qinghai (pronounced Chinghai). On the roof of the world next to Tibet, it supports only 4m people and more than 20m livestock. From its mountains and empty grassland rise two of the world's greatest rivers, the Yangtze and the Yellow River.

This is China's wild west. "No one should carry a gun without government permission," say notices in the only passable hotel in Xining, the provincial capital. Forty per cent of the province's population are not Han, or ethnic Chinese, but Tibetan, Hui and other minorities.

Like Tibet, it is effectively a Chinese colony. In any gathering of senior officials, there will scarcely be one who was born in the province.

The governor of the province is Han, most of the party top brass is Han, and the Xining city general secretary, Yang Boying, admitted that 75 per cent of senior provincial officials came from other parts of China. Xining's most important factory, the Qinghai No. 1 Machine Tool Plant, was brought from

Shanghai, staff and workers included, in the 1960s.

Qinghai, nicknamed "China's Siberia" is the site of many of the country's labour reform camps, and some of the Han settlers are thought to be ex-prisoners with no hope of a job in the east.

Religion practised by the Qinghai minorities is a strong bar to promotion. "We Chinese don't think you can believe in two things at once—Marxism and religion," said Du Baoshia, the director of the Minorities Affairs Commission, himself a Han. While history records that the Chinese are masters of doing just that by combining Confucianism, Buddhism and Taoism, today no one who does more than attend a religious marriage or funeral will make it past petty officialdom.

One minority, the Kazhaks, who numbered only about 2,000, have been moved from the province altogether, revealed director Du. Refugees from the Kazhak uprising (a "contradiction," he called it) in Xinjiang in the 1940s, they fled to western Qinghai.

By the 1980s they had become so inbred that when party

leader Hu Yaobang visited Qinghai in 1983, he approved a request that they be allowed to return to Xinjiang. Peking's motives may not have been disinterested, since, sharing its Kazhak population with the Soviet Union, it likes to keep them happy.

Outside Xining stands one of the greatest shrines of Tibetan Buddhism, the Kumbum or (in Chinese) Ta'ersi monastery. Here Tibetan pilgrims, clad in long sheepskin coats, their women with hair in tiny plaits, fling themselves on the ground in worship.

"Some do it 100,000 times," said a Han official. "That takes a healthy man six months."

In enlightened post-Cultural Revolution days Buddhism, like Islam, is tolerated. Monks at Kumbum number around 500, though novices are few. The handful of boys at the lama school amounts to only 13, so the future of the monastery must be in doubt.

In the bustling market below the temple's gilded roofs, grubby pilgrims buy blankets and jewellery. Yaks wander past the Tibetan tents 100 yards away, while the snowcapped

mountains glisten in the winter sun. It is a far cry from the sedate streets of the provincial capital.

Though Xining has its Moslem quarter, it is 90 per cent Han, just one more of the thousands of mostly post-1949 towns built in China with dull square buildings and endless avenues.

Only the eastern corner of Qinghai has been settled by Han for any length of time. They now account for most of the urban and farming population, while the Moslem Hui are merchants and small traders. On the high grasslands 800,000 Tibetans wander with their yaks.

Qinghai is second only to Tibet for backwardness and poverty. The north-east corner shares the eroded yellow loess country of adjoining Gansu and the rest is crossed by wild mountain ranges. The huge Qaidam depression in the north-west, though stocked with minerals, is part-marsh, part-salt lake and part desert. Even the plateau land is too high for rich pastureland.

Development has come slowly. In the past 35 years the railway has made its way to Xining and Golmud, and roads connect it to surrounding provinces (foreigners are now allowed to take the bus from Xining to Lhasa, but you must be tough to do it). A larger airport will be finished by 1990.

Industry, such as it is, has been set up mainly in Xining and Golmud. Chemicals, blankets, rugs and leather are made from local raw materials. A new 10,000-tonne aluminium plant processes metal from Shanxi.

There is the range of factories which at one time every province tried to have—steel, motor vehicles, machine tools. Many of the parts and raw materials have to be brought in from other regions, so plans now focus on developing local strengths. These are the hydro-power potential, oil and chemicals, livestock and their products.

Next year the first stage of the Yellow River hydro scheme will be finished. Plans are forming to exploit the reportedly 200-billion oil deposits at Qaidam, and the Qinghai Government wants to build a pipeline to Golmud where a 1m-tonne refinery may be constructed. Xining is building a magnesium processing plant and plans to expand the salt and potassium industries.

Developing the grasslands is, if anything, more difficult since it involves co-operation from the Tibetan herdsmen. "We'll offer them subsidies to settle down and send their children to school," said vice-governor Bian Yaowu.

Given the pressing need to improve the livestock industry, this may be one case where the Han provincial government will use its undoubted muscle.

Colina MacDougall

Gansu

Outpost denied investment

"WE CALL this China's third world," said a young Chinese in Lanzhou, Gansu's provincial capital. Eight million people out of the province's 20m are, by official admission, "quite poor." A thousand miles from Peking, Deng Xiaoping's reform only started in this mainly desert region about three years ago.

China last year told the western provinces that they could no longer expect much investment from Peking. The central government plans to put its money where the returns will be greatest in the east. It is hard to believe that this decision did not cause resentment.

On top of that, like the rest of China Lanzhou is afflicted with the problems caused by the national spurt of growth last year. Small tractor production, for instance, is frozen because of huge unsold stocks. A TV plant is in dire straits because the military (who on Deng's instructions have gone nationwide into civilian business) bought a colour TV line from Japan and scooped their market.

Gansu stretches more than 1,000 miles from east to west. Much is desert or arid loess, the yellow dust blown over millennia from central Asia. Until the railway came in the 1950s, its oases afforded shelter to caravans travelling the "silk route" from China to the west. It is a land of energy and mineral potential but strictly limited agriculture and harsh living conditions.

The one large town, Lanzhou, stretches more than 30 miles along the Yellow River. This turbulent watercourse roars past the city with a huge load of silt from the surrounding hills. The city's pollution from industry is famous in China.

Always an outpost of the Chinese empire, Gansu was the channel through which Buddhism came to China. Spectacular shrines mark the silk route, from the painted caves at Dunhuang in the east to the literally cliff-hanging temples at Maiji in the west.

Geographically part of central Asia, under the Han dynasty (206 BC to 220 AD) Gansu was attached to China. The "flying horse" of Gansu, a masterpiece of Chinese art displayed in London in the 1970s and now in the cavernous Lanzhou museum, dates from this period. The Great Wall ends at a fort in Jiayuguan in the west of the province.

The restless history of this frontier land culminated in a 19th century revolt by the Moslem Hui people. This was



Shandong bean sprout seller in Lanzhou market.

suppressed with great savagery. Troubled again in the 1930s and 1940s, it was only brought under firm Chinese control when the Communists took over in 1949.

Some 1m Hui still live in Gansu, as merchants in Lanzhou or small farmers. They are unmistakably different from the Han, or ethnic Chinese, with their beards and white skullcaps. Several huge mosques have been built in Lanzhou recently to replace those sacked in the Cultural Revolution. With a substantial Moslem population throughout its north-west, Peking keeps a weather-eye open for Islamic fundamentalism.

Lanzhou is a garrison town with officers lounging conspicuously in the lobbies of its hotels. The headquarters of one of the country's key military regions, it is conveniently

placed for China's uranium enrichment plant some miles from the city. In the desert north of Jiayuguan lies the country's rocket test site, recently all-military but now potentially civilian as China gears up to offer foreigners satellite launch facilities.

After nearly 40 years of impoverished socialism, Deng's reforms have begun to raise the standard of living. Eager hawkers from all over China have descended on Lanzhou's free markets, bringing the products of the richer east to sell in this deprived and distant city.

Amid the long lines of stalls and the hustle of passing feet, young Fan Xuetong from Huaibei in Anhui province spreads his red velvet TV covers embroidered with the magic but mis-spelled word Hitachi. Buying in Hefei, Anhui's capi-

tal, and selling in Lanzhou, he makes around 300 yuan a month, more than his parents and brothers save together on their family farm.

Cheerful but grubby girls from Shandong sell the bean sprouts they raise in a rented room in Lanzhou.

The reform has also helped agriculture. At a reported 4.6bn yuan for 1985, the value of agricultural output has gone up by about 50 per cent since 1980. Though only 8 per cent of the province's land is cultivatable, grain and fruit grow in the south-east and in the oases. With a claimed output of only 11.5bn yuan in 1985, Gansu hardly rates as an industrialised province. Yet it has advantages denied the much more developed eastern parts of China. Hydropower from the Yellow River and around 1.5m tons of oil yearly from fields at Yuzuo and Qinghai make it an energy exporter.

Industrialisation began in the 1950s, when Lanzhou got 20 out of the 150-odd projects supplied by the Soviet Union. These included the huge Lanzhou Petrochemicals Plant (employing nearly 40,000 workers) and the Lanzhou Petroleum Equipment Plant, the biggest in Asia. The LPEP supplies 80 per cent of China's drilling equipment including offshore.

Besides processing its own raw materials—nickel from Jinchang (one of the world's richest deposits), copper from Baiyin and lead from Changba county, the province's power surplus allows it to process other regions' aluminium. Gansu accounts for a third of China's output, an example of the extraordinary distances raw materials travel in this huge country.

Foreign trade is in its infancy. In 1985, exports were around \$70m and imports \$30m, and are expected to run at about the same level this year.

Woolens, animal products, minerals and machinery leave the country in return for items like wool textile finishing equipment.

Joint ventures and other forms of co-operation with foreigners were invited last year at a symposium held to promote about 100 projects. "Not much has happened since," said Zhang Da, deputy general secretary of the provincial government.

It will not be easy for Gansu, with or without foreign technology, to bring its remote territories and assorted peoples into the 21st century.

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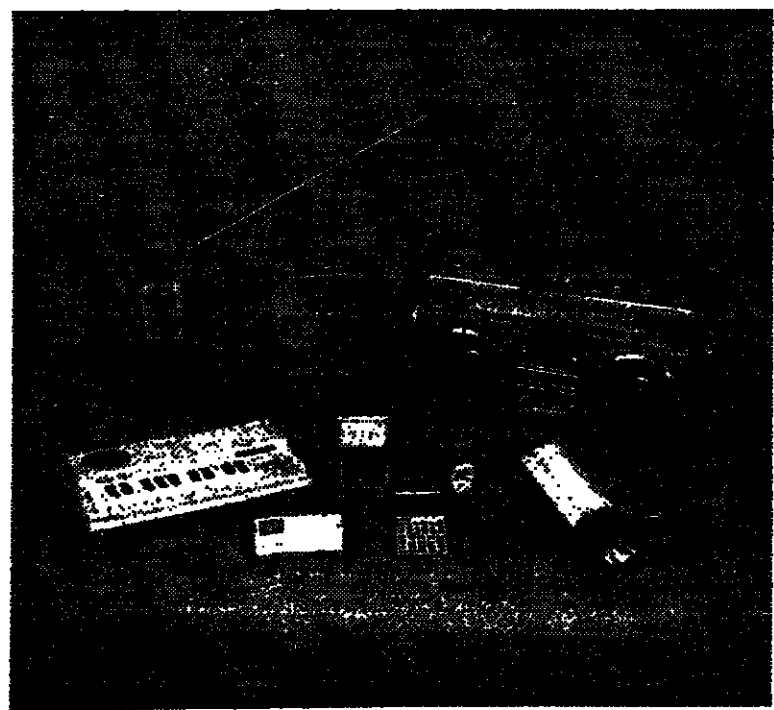
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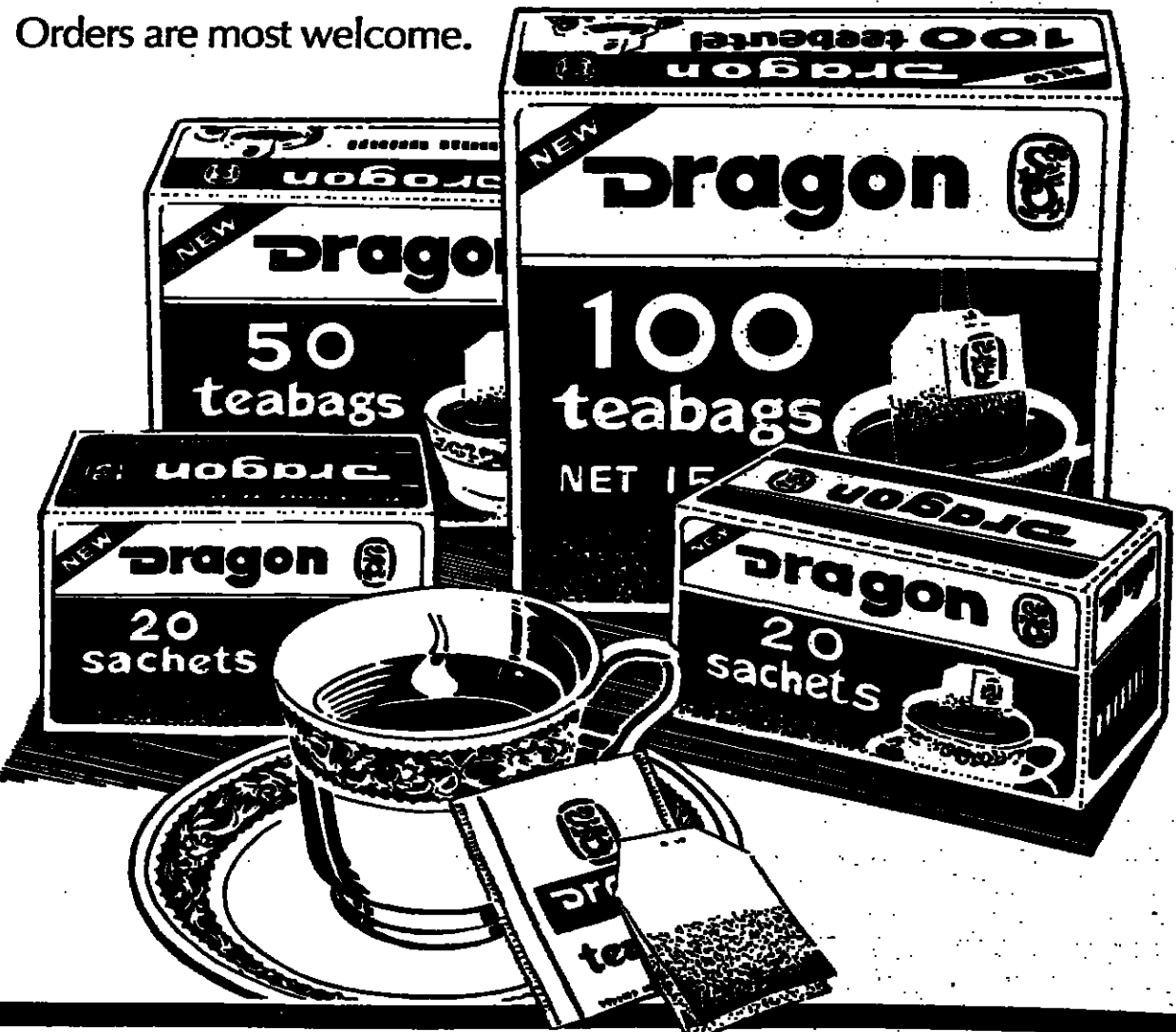
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Inner Mongolia

Economic change eases grievances

INNER MONGOLIA is one of five autonomous regions of China. It is a state that confers considerable cultural freedom on the Mongol minority, a measure of economic subsidy, but no political independence.

The liberal economic regime introduced in 1978 appears to have restored relations between Chinese and Mongols in this long border province beyond the Great Wall.

Well before they completed their revolution in 1949, the Communists had won considerable support among leaders of the ethnic minority. Their sympathetic treatment of the Mongols under Ulanfu—now, at 86, vice-president of China—was interrupted first by the so-called Great Leap Forward and again, more seriously, during the Cultural Revolution of 1966.

During the latter upheaval, when armed clashes were reported, Ulanfu was accused of reactionary nationalism and imprisoned. Other prominent Mongol Communists were tortured and killed while herders in the vast grasslands were forced into communes under Chinese control and sent off for political "re-education."

Today, Ulanfu's son Bube is chairman (governor) of the region, and two of his five deputies are of Mongol birth. Positive discrimination means that Mongols are heavily over-represented at senior official level; they are also allowed to have up to three children compared with the one—or, exceptionally, two—permitted to Han (Chinese), and the penalties for exceeding the quota are said to be lighter. Television, radio, newspapers and official documents are bilingual and there are schools where Mongolian is the first language.

It could be said that Peking can now afford to be so tolerant. Between the start of the Cultural Revolution and 1978 some 6m Chinese are said to have been settled in the region. The Han now account for 17m of the 20m population, the Mongols about 2.7m and various other nationalities—Hui, Moslems, Uighurs, Manchus and Tibetans among them—make up the rest.

If economic reform has helped redress old grievances, it has yet to make a big impact on industrial development.

Inner Mongolia is far from being the poorest of the 29 provinces. The people of the mountains and grasslands, it is true,



A Mongol peasant and her grandchildren

mediaeval world of mud-brick and plaster sheds, with pigs and chickens scratching round the door and the pony-cart for transport. But Huhehot, the capital, is a smoke-polluted modern Chinese city of half a million inhabitants.

High-rise buildings are going up on every side and a 16-storey luxury hotel was opened this year. Jeans and boots and leather jackets are in fashion, and some of the girls are slapping on as much facepaint as a Japanese geisha.

The local economy grew 8 per cent this year compared with 10 per cent last year according to the planning commission, and is due to continue at 7.2 per cent average over the next five years.

The herdsmen's average income is put at 650 yuan, compared with 365 yuan (net of living costs) for farmers and 720 yuan for city workers. Unemployment (or "permanently waiting for work," as officials are obliged to call it) has fallen to between 3 and 4 per cent as more people go into business on their own account, whether as high-

earning shopkeepers or barely-subsisting street traders.

Inner Mongolia produces meat, wool, leather and dairy products on the northern grasslands, crops in the south, forestry in the east and iron, steel and chemicals in the west. The main activity is sheep and cattle-rearing and the region wants to modernise its wool and leather industries. Drought in the grasslands means there is a need for more irrigation, fertilisation and animal feed.

The state has promised funds of 1bn yuan for development this year and next and 8bn yuan over the whole of the five-year plan to 1990, compared with 6bn yuan in the past five years. Some of this will be spent on developing the reported 8bn tonnes of proven coal reserves, said to be second largest in China after Xinjiang in the far west.

Officials say Inner Mongolia could overtake Shanxi province in terms of coal output; the present rate is 32m tonnes a year, less than capacity because of an inadequate rail network. Four of the five open-cast coalmines

mentioned in the state plan are for Inner Mongolia, including Junggar, south-west of Huhehot, for which a Japanese loan of \$800m is earmarked.

Three railway lines are planned: one from the closed city of Jining, on the Moscow-Peking transcontinental line, to Tongliao; one from Baotou, site of one of China's biggest steelworks, to Shanxi province; and one from the new Junggar mine to Datong.

The regional government has been authorized to borrow, if it can, \$300m from abroad for approved projects. These include railway development, power station upgrading, irrigation from the Yellow River, alkali extraction in the west, chemical plants and non-ferrous metalworking. Regional planners are waiting for World Bank approval for the rail and irrigation schemes, and are negotiating for concessionary finance from Australia and Denmark, among other countries, for industrial projects.

Negotiations with companies in the US, Hong Kong and West Germany about coal develop-

ment have been going on for several years. The government wants the companies to invest and even manage the enterprises, repaying them in coal. No contracts have been signed yet because, said Zhao En, a senior government official, foreign finance is being offered at interest rates higher than the government will pay.

Foreign involvement in the economy is limited, but there is

said to be \$100m of foreign exchange to be spent a year on machinery from abroad. Compensation trade (where the imported equipment is paid for in goods produced seems to be preferred to equity joint ventures because of the bureaucratic obstacles in the way of the latter).

Mitsui of Japan has been involved in production of high-quality cashmere, and another Japanese company in the manufacture of sugar beet feed for dairy cows. Negotiations are in progress with Italian, West German and Swiss companies for knitwear, ceramics, glassware and flour milling. A handful of equity joint ventures, co-operative and leasing arrangements bring the total foreign exchange committed to the region to only \$47m.

In terms of foreign trade, Inner Mongolia ranks only 23rd in China. But exports have expanded from \$70m two years ago to around \$170m this year, according to the regional bureau. Imports were worth some \$50m this year, compared with \$30m last, because the region was able to retain a large slice of its hard currency earnings. One of the perks of an autonomous region is that it may keep half of its hard currency earnings, while provinces can keep only a quarter.

Any hope of increasing commercial contacts with Outer Mongolia depend on how far Sino-Soviet relations will ease. Even then, there is not much that its backward neighbour can offer China. There seems little confidence in the regional government that the USSR will withdraw its troops from the border as Mr Mikhail Gorbachev, the Soviet leader, has said.

An official said China has few troops at the border, wants normal relations with Outer Mongolia, and is concentrating on economic, not military development. The bomb-shelter tunnels built underneath Huhehot in 1959 when war with the Soviet Union seemed imminent are said to be gradually falling in.

Christian Tyler



A beggar on the road between Jining and Huhehot (top) and a Mongol and her child shopping in Erlian, both in Inner Mongolia

Guangxi

Trying to make up for lost time

SINCE the Song dynasty 700 years ago Guangxi has been regarded as a poor but stunningly beautiful backwater fit only for peasants, poets, soldiers and recalcitrant officials. Some might be tempted to say that little has changed in the past 1,000 years.

In south west China on the border with Vietnam, Guangxi is a mountainous region of bizarre limestone peaks and massive river systems which have long been eulogised, though only by poets and artists.

Only 10 per cent of the land is suitable for agriculture yet 34m of the region's total population of 30m live in the countryside, mainly scratching a meagre living from rice, sugar and fruit growing.

No one is starving but agricultural incomes are far below the national average and a large number of Guangxi's country folk, many of them from the province's 12 minority tribes, have incomes equivalent to less than 400 yuan a year.

Authorities in the Guangxi Zhuang Autonomous Region, as the province is officially called, agreed earlier this year to exempt poor households, many of them in the north and west, from paying agricultural taxes. The circular issued in Nanning, the capital, defined poor households as those whose average annual grain ration was less than 200 kg (440 lb) a year and whose annual income was below 120 yuan.

This year farmers have also endured appalling weather. Two typhoons struck the region, causing widespread flooding and damage. Crops of rice, sweetcorn and potatoes fell to 11m tonnes from 13.6m tonnes three years ago.

According to an official in the provincial planning office, unemployment, or underemployment, in rural areas is widespread, and a large majority of farms' children cannot find jobs after leaving school.

Development of the region has been hampered by China's border war with Vietnam. Peking's decision to teach Hanoi a lesson in 1979 took an estimated 200,000 troops to the province, but the Chinese soldier is hardly a big spender.

From both Peking's and Guangxi's points of view the results were that Chinese troops suffered about 20,000 casualties (around 10,000 of whom are believed to have died) in the two-month war, while Guangxi was forced to provide homes, jobs, subsidies and sanctuary for about 130,000 of the estimated 253,000 overseas Chinese who fled across the border from North Vietnam.

Besides this financial burden and the disruption caused to people living along the Vietnamese border, the fighting hardly made Guangxi the Peking authorities' favourite place for investment. In consequence the region was left behind just as Deng Xiaoping's economic reforms were beginning to take effect.

Sporadic fighting, shelling and incursions continue along the frontier, but officials claim that the disruptions affect just 1m people living in a strip along the border. Chinese troops in Guangxi are now fewer than 100,000 and the province is trying to make up for lost time. Although backward the region has a superabundance of largely untapped resources that are just beginning to be made economic planners in Peking sit up and take notice. Guangxi is rich in a whole array of minerals—200m tonnes of bauxite, 140m tonnes of manganese ore, and large reserves of titanium, tungsten and zinc.

It also has great possibilities as an export outlet for neighbouring landlocked provinces, substantial resources of marine products in the Gulf of Beihai and a wealth of hydroelectric power potential in its might river systems.

There is also the capacity to expand further one of China's biggest tourist industries based on the resort of Guilin, already one of China's top four destinations for foreign visitors.

So far tourism has been the region's main success story. This year Guangxi expects about 333,000 foreign visitors and nearly 4m Chinese tourists. In 1978 it hosted just 58,000. The city's deputy mayor is so taken by the transformation of this once sleepy town on the Li River that he is forecasting 700,000 foreign visitors by 1990 and wants to build an international airport.

Next to tourism, agriculture, fruit and food processing, Guangxi's main development priorities are power and communications. Officials calculate that the region's hydroelectric power potential is at least 18,000 MW, and work has already begun on three power stations on the Hongshui River, the first part of a 10-plant plan to generate, at a cost of 20bn yuan, up to 11m kWh of electricity.

It is among the largest hydro development projects under way in China.

Guangxi consumes just 1.5m kWh of electricity a year, so the aim is to export most of it to neighbouring and power-hungry Guangdong. Work is now under way on a \$300m power transmission line to link the two provinces' electricity networks. The massive increase in output could also provide a useful base for the region's own light industrial development.

Officials in Nanning are now considering the possibility of an aluminium smelter based on local bauxite and Hongshui power. The scheme could provide Peking with much-needed orders for its massive transmission line construction programme, but finding the money to get it going, and a means of transporting it to where it is needed, will not be easy. Despite the five major rivers,

which until as recently as the 1920s provided one of the main routes for the opium trade, communications in Guangxi have been a serious block to economic development. A new railway between the capital of Nanning and the port of Fuzhou on the Gulf of Beihai is nearing completion.

Almost finished, too, is a doubling of Beihai's port capacity to about 1.5m tonnes. It is hoped that together these two ports will provide the main outlet for exports to Hong Kong and the rest of the world from landlocked Yunnan, Guizhou and Sichuan provinces, as well as from Guangxi itself.

The idea makes good sense in the long term, but an overloaded transport network to the railroad at Nanning means that there is a long way to go before the region's outlets can provide a real challenge to Canton's port of Huangpu.

Shortage of finance rather than ambition is likely to prove the main drag on development. Given current low world prices for minerals, attracting foreign investment will be tough, while for other projects such as textiles, food processing and light industry the region's publicists will have to work hard to persuade investors to go there rather than to better-known places like Shanghai and Guangdong.

For the present the investment planners in Nanning are wisely concentrating on trying to attract overseas Chinese investors.

Whether the region's prodigious sons will consider returning with the wallets open remains to be seen, however.

Richard Cowper

China National Cereals, Oils & Foodstuffs I/E Corp., Hebei Branch

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Shanxi

Adrift on a sea of coal

THE NORTHERN province of Shanxi is a dramatic representation of China's changing fortunes over the centuries. Once one of the cradles of Chinese ancient culture and prosperity, Shanxi now has only spectacular temples and price-less relics to remind residents that times have not always been such an uphill economic struggle.

Today Shanxi pins its hopes on its vast sea of coal—one quarter of all China's reserves—beneath its largely rocky and unyielding surface. But unless it can take its formidable infrastructure problems and get coal away quickly and efficiently to energy-starved provinces in the south and to the Eastern ports for export, the province's ambitions of renewed prosperity for its 26m inhabitants could remain frustrated.

"We have 220bn tonnes of coal, 3bn tonnes of iron ore deposits and 500m tonnes of aluminium yet we rank only around the middle of all Chinese provinces in terms of economic wealth," says Mr Wong Sen Hao, the governor.

"We have made great progress but our targets now for the new five-year plan are to make a dramatic change in our capabilities."

He is one of a new breed of governor. A native of Shanghai, like the mayor, he is a graduate of Peking's mining institute. He worked in the Shanxi mines for 27 years before moving to the central ministry in Peking in 1982.

Within a year he was identified as someone with the knowledge of mining which might enable a province like Shanxi to make some use of its natural assets. Although still only in his early 50s he was sent back as governor as part of the central philosophy of pushing younger men into leadership.

"Transportation is our hopelessly weak link. It looks as if we have a good arterial railway network but it can carry only 150m tonnes a year and we need a minimum 200m tonnes. The priority in the Five-Year plan here is to electricity and double-track existing railways, build at least five new tracks and simultaneously increase coal production," he says.

Meanwhile, 40m tonnes of coal sit stockpiled in Shanxi every year, production rises only very slowly from 210m tonnes last year to 220m this and perhaps around 230m next year. Desperately needed foreign currency is not earned because not enough coal reaches the

ports. Energy starved provinces like Hunan also suffer power cuts and have to import coal from Australia because road and rail links are too poor to enable enough Shanxi coal to get much further than neighbouring provinces.

These infrastructure problems are so great that the province has had to rethink its ambitious plans for opening up more coal seams. The Woyu Bank, for example, has agreed to a request by Shanxi that the previously agreed loan facility for a new mine at Changzhuang should be diverted to modernising and upgrading existing mines rather than exploiting new deposits which will only add to the stockpile and transport difficulties.

In spite of these difficulties surrounding its key asset, Shanxi is moving slowly forward on other fronts. The dismal smog hanging persistently over the magnificent mountains and making coughing and spitting endemic, are a testimony to the rapid industrial expansion.

"We know London managed to free itself of smog and we are studying West German technology for controlling industrial pollution," says the mayor, Mr Yang Chungchun. But whether precious foreign currency is likely to be allocated to such sophisticated equipment seems highly doubtful.

Foreign investment is expanding and negotiations are under way with foreign governments for loans for \$300m of development projects in chemicals and metallurgy. Negotiations are also taking place with the World Bank for a \$35m coal processing plant and a \$30m cement manufacturing plant. Talks are advanced with the West-German steel giant, Krupp, for a DM1bn joint venture for a special steel plant with 450,000 tonnes of annual capacity.

China's largest chemical fertiliser project, the Shanxi Chemical Fertiliser factory, has been established with West-German and Japanese technology and although foreign currency is scarce, the province is anxious to push forward with more projects involving advanced foreign heavy manufacturing technology.

But the province faces two other major hurdles to progress: reform of the agricultural sector and an improved education system. About 80 per cent of the population works in the largely unmodernised agricultural sector producing just 16 per cent of this year's

province income. The 5m in the industrial sector therefore generate 84 per cent of income. For all the progress China is making in some fields, hand tilling of fields and the rickety old wooden cart tugged along by an ox or donkey remain the rule in Shanxi as much as anywhere else. Less than a third of the cultivable land is irrigated and many small farmers are scratching a precarious living.

As modernisation slowly encroaches the hand-tilled fields, surplus mainly poorly-educated labour, moves into the small rural industries which should form the base for both de-agriculturalisation and the switch from heavy to more light industry.

The Wan Kit Electronic company was established in 1984 in partnership with overseas Chinese in Hong Kong, who provided \$150,000 to buy the most advanced watch-making technology available in the US. In the first year output was 420,000 watches, all sold in China as the quality was not up to export standard. In 1985 3.03m were made and half sold abroad. This year 3.2m had been made by November of which 80 per cent were sold abroad.

The capital start-up costs have been paid off, foreign exchange earnings this year should top \$100,000 net and the 177 workers can add bonuses of up to 250 yuan a month to their monthly income of 170 yuan—its double the national average wage.

The living standards of the Shanxi are improving rapidly as economic reforms stimulate the economy and people spend their surplus cash in the free markets along the pavements of even the smallest villages. The province's average agricultural income has risen by about 18 per cent a year during the 1980s and now stands at 387 yuan per year; urban incomes have grown by 8 per cent a year and now average 560 yuan.

Inflation—always a highly dubious statistic in China—is officially about 6 per cent a year, so real incomes in the province are rising. It shows in the shops and markets and in figures such as the 37 per cent of rural households who built themselves homes during the last five years.

But Shanxi is being held back by lack of infrastructure and a shortage of investment capital.

Robin Pauley



One of the bustling free-markets in Xiamen

Xiamen

Shop-window for the Taiwanese

THE GLOOMY BAR in the Jin-bao Hotel in Xiamen, on the coast of Fujian province, was almost deserted. A young Chinese came in quietly, exchanged a few words with the barman and left.

"Do you know who he was?" asked an excited Chinese fellow-guest. "He's from Taiwan." Under China's new open policy there is a large indirect trade with Taiwan via Hongkong and even some disguised Taiwan investment in the mainland. Visitors are still rare, however.

With the Guomindang-held island less than 100 miles away and the offshore islands of Quemoy and Matsu just over the water, Taiwan holds a special fascination for Xiamen. Its closeness emphasises the fact that many of Taiwan's original settlers were from Fujian province.

"Xiamen Special Economic Zone (SEZ) has to be a success," said a Western businessman. "It's China's shop-window for the Taiwanese as Shenzhen is for Hongkong. Now that Hongkong's future is settled the focus is on Taiwan."

The Xiamen SEZ, situated on an island with the town of Xiamen on its southern tip, and a stretch of coast opposite, is in difficulties. Like the rest of China, it has been hit by Peking's foreign exchange

shortage and the resulting lack of foreign interest in investing. It also has other problems, such as misguided planning and errors of judgment in the choice of foreign trading partners.

Only 25 joint-venture contracts had been signed up to last June, compared with an unspecified but much larger number last year. The total to the same date from 1979 came to 314, worth \$570m, with 141 now up and running.

The Huli industrial development zone, purpose-built one-storey factories for foreign partners, is nowhere near full, though some new enterprises are appearing on other sites in Xiamen island.

Although they include large US partners like Kodak, Wang and the tobacco company R. J. Reynolds, 60 per cent of the total are from Hongkong. With the rest mostly from Singapore, Malaysia and the Philippines, the emphasis is on the Overseas Chinese, mainly those of Fujian origin.

Xiamen, once better known under its local dialect name of Amoy, initially failed to attract industries likely to be foreign-exchange earners. This year, like many cities in China, it has not been able to find the foreign exchange for the factories which need components or raw materials from overseas. Although the Deputy Mayor

claimed that only 10 per cent of projects were in difficulties, foreign observers believe that the proportion was much higher.

"We've had to provide \$63m in foreign exchange to the joint ventures, and the electronics industry has eaten up most of it," said Xiamen construction officials Qi Fan and Zhou Ku. This was a reference to the Xiamen Overseas Chinese Electronics Corporation, which had imported Japanese television and cassette player production lines.

Xococo, jointly owned by Xiamen and the troubled Hongkong company Conic still needs to import from Japan 70 per cent and 30 per cent of its television and cassette parts respectively. While a new model is being designed to use components made in China, and may be in production next year, this year the 500,000 TV set capacity plant will produce only about one-third of that. Of these only 44,000-50,000 will be for export.

In 1984, before the Xiamen plant was built, the Conic chairman vanished from sight in one of Hongkong's more spectacular scandals, leaving the company with enormous debts. Though then taken over by the Hongkong left-wing company China Resources, it took time to sort out Xiamen's position. Xiamen was also unlucky with

China's first joint venture bank, Xiamen International Bank. This was a project between the SEZ and the Indonesian Chinese Bank, Panin. Last year's scandal at Panin also meant embarrassment, problems and delay, and the project was resumed only after an injection of Middle East money into the bank.

These apparent errors of judgment point to the inexperience of the mainland Chinese who relied on personal and family contacts.

One hopeful project is China Ceramics, a venture between Xiamen and the UK subsidiary of the US company Interkiln. This factory, planned to start limited production in January, will eventually have an output of 11m cups, plates, bowls and teapots for export to the US and 285,000 pieces of sanitary ware for South East Asia.

"Our problems are resolvable," said Mr F. Henshall, the managing director on a visit to the Xiamen plant. "Our raw materials are local, and we've installed a West German coal gasification plant, as China's fuel is of low quality."

"Unexpectedly, last year we had to ship in steel and cement, but we extended and increased our original \$18m loan." This came from Wardley, the Hongkong and Shanghai Bank's financing arm.

Xiamen has advantages which appeal to some investors. Its harbour is one of China's best deep-water ports with a container terminal where trade increased substantially last year.

It has a new airport, new direct-dial telephone links with Hongkong and Japan, new hotels and a relatively educated workforce. It is also an agreeable if shabby city with beaches and water sports potential.

New regulations promulgated by the Xiamen authorities in October insist on quick approval for investment schemes and provide bond facilities for factories importing parts for assembly and re-export. This may be extended to full free port status.

On the debit side, transport inland is bad, with only one railway from its fertile triangle to the rest of China across inhospitable mountains. Historically a light industry centre, Xiamen has none of the heavy industry of Shanghai or Tianjin. "But we are happy enough with our present deal to be planning another," said Mr Henshall. "We're discussing one with Shanghai and we may build a tile plant here as a second stage."

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Shanghai

First steps to urban renaissance



A woman building worker in Shanghai, where the go-ahead has been given for major reconstruction.

TURN ON the local radio in Shanghai and you hear American rock music. Step into a back-street restaurant and have Shanghai crabs for less than \$3. Or push your way into the Number One Department Store and buy a lumpy but presentable pin-striped suit for \$16.

Also on display in Shanghai's premier department store are Shanghai microwave ovens, Sony videocassette recorders, Chinese-made electric guitars and snooker sets.

Once the commercial leader of Asia, Shanghai is starting to make a comeback.

Shanghai's recovery will take many years to complete—most of the city's infrastructure and capital plant still dates from before the war—but in the past two years important progress has been made. The framework is now in place for an urban renaissance.

"I cannot say that in the near future we will be the biggest or

the best in the Pacific region, but we will try to be one of the best," says Zhan Hue-Zhong, vice-mayor of Shanghai.

Elegantly dressed and smoking imported cigarettes, Zhan typifies the city's ambitions. Indeed, City Hall, the former Hong Kong Shanghai Bank building, gives off the same aura. Every bit of the opulence of the colonial bank has been preserved, from the polished marble floors to the delicately-painted vaulted ceilings.

City Hall stands in marked contrast to Shanghai of today, where the 12m residents have an average 54 sq ft of living space, where indoor plumbing is virtually unknown and most of the city's piped water is unsafe to drink without boiling. Recently, however, a number of important changes have taken place in Shanghai, each one adding to the city's recovery plans.

The most important is the boost in the city's budget, thanks to a more relaxed view from Peking. Traditionally, Shanghai has surrendered all but about 13 per cent of its revenues to the central government. Thanks to the earnings of its well-developed, if ageing, industrial base, Shanghai has been supporting the renovation for much of the rest of the country.

Last year, however, Peking agreed that Shanghai could retain 23 per cent of its revenues for its own projects.

That provided a boost of roughly 70 per cent to the municipal coffers. In future years, according to city officials, the retained portion will increase further.

Spending on electricity, transport, telecommunications and infrastructure in 1985 soared to 1.9bn yuan, a 85 per cent increase over 1984. Renovations to factories and plant jumped 57.8 per cent to 3.56bn yuan. Because of the changed view from Peking, this level of funding is expected to be maintained this year despite recent declines in Shanghai's exports and a small drop in its overall revenue growth.

At the same time, Peking has given the go-ahead to an ambitious programme for rebuilding the city's infrastructure. After years of planning, studies and deliberations, Shanghai has decided to commission five major projects over the next five years. The city plans to raise capital at home and in foreign markets and involve foreign technology and management in all the projects.

They are:

- An eight mile underground system, expected to be completed by 1995. Shanghai is in talks with contractors in Britain, France and Japan about the project. Current estimates say the system will cost \$162m a mile to build. City officials hope to help finance it by offering foreign companies development rights for commercial centres at

each underground stop.

- A badly-needed extension to the Shanghai airport, to be built in co-operation with a Dutch contractor. Expected completion date is the end of 1992.
- A new bridge across the Huangpu River, in the planning stages, estimated to cost about \$100m.
- A water purification and sewerage system, expected to start late next year.
- A new telecommunications system, already partially underway with the assistance of Bell of the US.

The foreign businessman hoping to make a quick link with one of the projects is likely to be disappointed. Exact specifications and costs have yet to be decided; not all can be done at once and priorities have not been decided because funding has not been arranged.

Matt Ward, economic consul for the US in Shanghai, says: "They are intelligent plans. This city was built 60 years ago for 4m people. Now, they have analysed the infrastructure and have come with sensible plans for modernisation."

"After spending 20 years in developing countries in Asia, I think what that city has done since 1980 is remarkable."

Foreign diplomats believe that Shanghai's emergence on the foreign capital markets could be significant over the next few years. A new 300,000 ton ethylene plant, for example, will be looking to borrow a sizeable portion of its 2.4bn yuan

project cost from overseas.

At the same time, the city is attempting to provide incentives to foreign investors. Only weeks after Peking announced its 16 rules for joint ventures, Shanghai announced a programme of 22 new rules.

One of these already operating is an open foreign exchange market where yuan can be exchanged for foreign currency certificates. Others, such as an office for simplifying import procedures, has been approved but does not yet exist for lack of office space in the city.

Like every big developing city, an element of chaos is quickly detectable in Shanghai. The city's keen interest in boosting tourism and foreign exchange earnings, for example, has resulted in a overheated hotel construction programme which could bring a harmful glut of hotel rooms in a few years.

None the less, the city feels as if it is on a track, Mr Ward says. "Shanghai is an easier city than Tehran, Bangkok or Taipei. When the bicycles turn into motorbikes and motorbikes turn into cars, then the city may have big problems."

Those might be the kind of problems Shanghai would like to have—and certainly, it is already preparing to deal with them.

Carla Rapoport

China National Textiles I/E Corp., Shandong Branch

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Fujian

Export boom for investment leader

PARADOXICALLY, Fujian is one of China's most foreign-oriented provinces, yet some 75 per cent of it is cut off from the sea by inaccessible mountains. Its busy ports of Fuzhou and Xiamen (once called Amoy) traded abroad for hundreds of years, but the interior was completely untouched by its prosperous commercial life. Yet over the past century poverty drove many mountain people to flee to South East Asia, where their descendants now make up about a quarter of the world's Overseas Chinese community.

This overseas population and tradition of commerce gave Fujian a head start when Deng Xiaoping initiated the "open door" policy in 1979. Along with Guangdong, Fujian was given special facilities from Peking to attract foreign investment.

Xiamen was named a Special Economic Zone and Fujian was the first province to raise a loan abroad, through a Y6bn bond issue in Tokyo in 1983.

Since then the provincial capital, Fuzhou, and the fertile Xiamen-Zhangzhou-Quanzhou triangle in the south were also given special status as investment havens, though with this year's financial problems Peking has discouraged further infrastructure there.

With Fujian's trade has boomed. Exports, in 1978 worth only \$190m, stood last year at \$480m. Hong Kong and Macao are its main markets, while its chief source of imports is Japan.

"We have two problems with Japan," said Mr Chen, echoing other Chinese officials. "One is our trade deficit, because they buy very little from us. The other is that they are very conservative and narrow-minded in

transferring technology to us."

Japan has been a useful source of finance, however. The Y6bn bond issue of 1983 was followed by another of Y10bn in 1985. They were used to finance the extension of the airport and the Kodak-supplied plant at Xiamen.

Lanched by Nomura, which approached Fujian with the idea, neither required a Bank of China guarantee. The province has followed them this year with a \$30m Asian dollar bond issue in Singapore.

Fujian's development record since 1979 is not bad. The airport at Fuzhou has been extended, and the port at Mawei improved. At Donghai on Xiamen Island four 10,000-ton berths have been built.

Fujian borrowed money from the First Bank of Chicago in 1979 to establish an ocean-going cargo fleet which is now turning in an annual income of \$8m. New programme-controlled telephone exchanges in Fuzhou and Xiamen make it possible to direct-dial abroad.

Forthcoming projects include a 320 MW hydro-electric power station at Shaxigou financed by a Kuwaiti loan of \$20m. The first turbines will be installed next year.

Port development is planned at Meixhou Bay, where deep water permits its expansion as an entrepot. Lead and steel-making plants, and an oil refinery are also on the schedule. Most of Fujian's investment in the near future will go into the coastal strip. Behind it lie the high mountains where about two-thirds of the population still live. This area, in some parts precipitous and wooded, in others disastrously eroded, affords a poor living to the millions who live there.

"The red granite in north western Fujian is the worst," says Yu Guanglu, deputy director of Fujian's Foreign Affairs Office. "Erosion keeps the annual income down to about 200 yuan per person." With the city income about 700 yuan a head this is startlingly low.

Of Fujian's arable land—about a quarter of the total—only 10 per cent is flat. The rest is only suitable for hillside crops such as tea and oilseeds.

With growing disparities in incomes it remains to be seen how long the provincial government can maintain its present investment policy of concentrating mainly on the coast.

Colina MacDougall



Tea pavilion at the seaside opposite Xiamen island.

Daqing

Pioneers' hardship eases

WHEN Mao Zedong whipped China into a frenzy during the Cultural Revolution, he fixed on Daqing, the country's largest oilfield, as a symbol of achievement for the propaganda drive. The masses were told again and again that "Industry should learn from Daqing."

The old slogan raises a smile in the remote and bleak city in China's north-west. Yet the old hands who arrived in 1959 after surveys showed that there was an oilfield worth exploiting clearly believe that the hardships they endured have set an example for the country.

These try not to look too far ahead, as oil output has reached its peak and the field will be struggling to attain the goal of just over 50m tons annually for the next 10 years. The 2,348 man-tie-like pumps that have appeared since 1983 even in the grounds of housing complexes and hotels are reminders that the oil is not gushing as it once did.

Ma Jirei arrived as a 17-year-old at what was a desolate grassland in late 1959 after having been commandeered from an oilfield in Xinjiang province for what was called the "oil battle."

"When we came it was very difficult. We had no place to house the people. We had to haul the huge drilling rig by ourselves because we had no machines to carry it," he says.

Ma is now vice-chairman of the local trade union, and has

not-so-humble pride in the fact that the field is still producing about half the nation's total oil. "I will live here no matter what. I constructed it with my own hands, so I love Daqing. Now it is a civilised city."

Fashioning a future is partly the responsibility of Zhang Qingcheng, director of the municipality's planning commission. He expects the population of 830,000 to rise to 940,000 by 1990 and 1.1m by the end of the century. In the meantime, the city will attempt to change in character from "a single-industry to multi-purpose metropolis," as he puts it.

At present, oil and petrochemical make up 89 per cent of the municipality's gross production, while light industry comprises only 3 per cent. Mr Zhang says, "Every day I think about the oil disappearing. Peking and other cities are an adult in light industry but Daqing is only a child."

Daqing is planning beer, furniture, livestock feed, bread and textile factories. Last year, a blanket factory went into operation, and negotiations have begun on the construction of factories to manufacture parts for the increasing number of pumps needed to squeeze oil from around the city.

Seven fields make up what is collectively known as the Daqing field. For the past decade Chinese leaders have talked of a "second Daqing" in the region,

but the grand find has not happened. Poor results from offshore exploration in the past three years and the oil price slump that has curbed foreign enthusiasm for onshore exploration have put extra pressure on existing fields.

Hence the Chinese are working on ways to increase the recovery rate of Daqing's known reserves of 4.3bn tons. The present rate is about 32 per cent and the aim is to lift that to 50 per cent. Up to the end of last year, 732m tons had been exploited since the first oil was won in 1960.

Increasing amounts of water are being pumped into the field to keep the pressure high — for every seven barrels of oil, six cubic metres of water must be injected. And the Government has made clear that it is willing to spend foreign exchange on new techniques.

Zhang Qingcheng, who came to the region in 1960, says water is pumped into the middle of fields in Daqing, whereas foreign companies prefer to inject it on the fringe. "We get better results from our method."

The Daqing Economic Development Corporation diversified the city's interests unexpectedly by buying a 70-room hotel in Frankfurt for DM 9.2m last year. The renovated hotel had an opening in April and is due to be formally

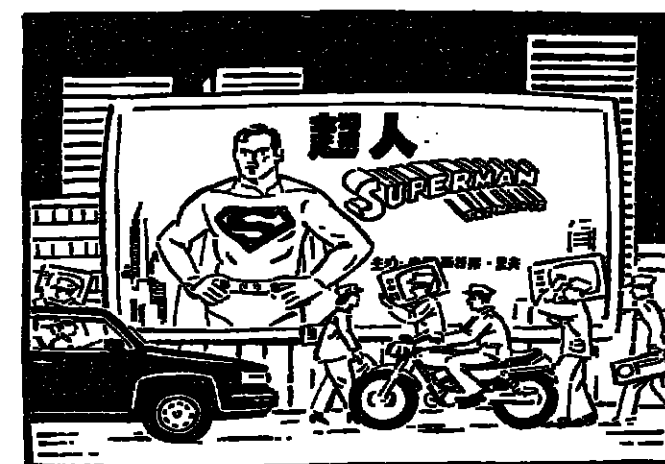
christened soon. The Corporation reckons that income earned after the first two months of operation was about DM 100,000, and says the property is intended to be Daqing's window on the world and the world's window on Daqing.

Li Hulchang, the corporation's vice-director, also arrived here in 1960 and was responsible for purchasing provisions for the workers. He is now a thriving businessman. "If you have a good product we will think about it," he said, rolling up his sleeves to emphasise that he is a man of action.

Mr Li admits that the corporation was fortunate to have secured the hotel deal last year because the Ministry of Foreign Economic Relations and Trade in Peking has approached such projects conservatively this year. He said the investment has proven to be wise because the corporation is making a profit on exchange rates.

The corporation has opened a branch office in the Shenzhen Special Economic Zone in the south, and has invested in a restaurant in the northern port of Dalian. It is also negotiating the building of a plastic bag factory with a Hong Kong company.

Daqing has a legendary harshness. It has produced characters such as "Iron Man" Wang, said to have worked 24-hour shifts and pictured in a local museum



Cultural and Social Reforms

China's literature and film, frozen for years under rigid socialism, has begun to thaw into life. But for hundreds of millions who have practically no schooling, this is mostly meaningless. Until Peking spends more money on education, neither culture nor the technical skills needed for modernisation will be able to take off.

pulling a cable with his bare hands while his comrades are gloved. But the harshness has eased. The windswept streets are lined with five and six-storey apartment blocks, and local officials say that seven of the 20 seismic survey teams have air-conditioned coaches complete with bath and colour television.

Deng Xiaoping visited the area in 1979 and was appalled by the poor standard of housing, partly a legacy of the spartan romanticism of the Cultural Revolution, and mostly a lack of money. Municipal officials say the "Daqing spirit" is as strong as ever, and stories of workers performing selfless acts are still the stuff of the local press.

A monument of drilling pipes arranged in a triangular pattern is being erected in the centre of the city in appreciation of the efforts of the hundreds of engineers and other workers who created the original boom. Despite having to use primitive drilling equipment, China had counted on Soviet help in developing the field, but the Sino-Soviet split ended this hope.

Ma Jirei remembers that a chronic shortage of vegetables forced workers to eat pig food. Like many of the first arrivals who have stayed on, he cannot comprehend a Daqing in decline.

Robert Thomson

Education

Neglect proves drawback

CHINA'S over-stretched, under-nourished education system remains one of its most serious problems. Of the country's 136m primary school students, only 6 per cent graduate from secondary schools and only 640,000 students reached university this year. Some 200m Chinese are unable to read and write.

The falling of the administrative of the past three decades was the neglect of the importance of education. This is proving to be a serious drawback to the modernisation of China," says Prof Zhao Fusan, Vice-President of the Chinese Academy of Social Sciences, the Peking research centre and think-tank.

Education was held in open contempt during the Cultural Revolution: teachers were ridiculed, universities and secondary schools were closed, and many rural primary schools forced to operate in run-down temples or shrines.

In Fujian Province in south-east China, these schools were called wupao ("five broken") — broken building, broken windows, broken doors, broken desks and broken stools.

Today, China's leadership has recognised the crisis in education and taken some steps towards solving it. Last year the Ministry of Education was absorbed into the new State Education Commission, equal in status to the powerful State Economic and State Planning Commissions. The Government also announced that nine years of compulsory education would be achieved in less than 20 years. It would need much longer.

Indeed, at the spring session of the National People's Congress, education officials said that the ambitious Three Gorges power station project should be delayed or cancelled, with the funds diverted to education. That debate has delayed the energy project for at least a year. The choice between energy and education will not be an easy one.

But even if more money was made available for education, the problems would not disappear, because fewer educated young Chinese want to be teachers.

The average salary for a teacher in the Shanghai West Middle School is about 100 yuan a month. A teacher would earn twice that as a labourer on a hotel construction site, and more by setting up a small business.

On the plus side, however, China's reforms are seeping into the educational system. At the Shanghai West Middle School teachers are allowed to run small businesses on the school premises and keep the profits. They have opened a photocopying service and a small production line making ship measuring instruments.

According to Mr Jin Yixiang,



China's education system faces serious problems

Fishermen who can buy new boats find they cannot read their navigational charts.

According to Prof Zhao, the debate about increasing funding for education is going on at the highest level in Peking. "It seems ambitious that nine years of compulsory education could be achieved in less than 20 years. It would need much longer."

Some, however, can now take part of the exams prior to the national exams. Even so, Chinese, mathematics and English are tested solely at the annual July examinations.

In spite of this intense pressure, students who do make it into higher education are finding a freer atmosphere for dissent and debate. This September, for example, China published its first white paper on science and technology policies.

It says "Respect for academic freedom is an expression of respect for people's democratic rights and for human intellectual creativity. It is not up to administrators to conclude what is right or wrong in academic fields. Right and wrong can be determined only through free discussion and the test of practice."

"It is absolutely forbidden to criticise different opinions as being not in line with the party." Like many other reforms, it may be some years before the full effect of these statements is felt. But for all its problems, the modernisation of China's educational system appears to be under way.

According to Mr Jin Yixiang,

Carla Rapoport

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China 26

Eloquent testimony to caprice



Wang Meng, Minister for Culture, is a former writer

Profile

Wang Meng

WITH HIS vaguely Oxford-dish appearance, Wang Meng, Minister for Culture, is eloquent testimony to the caprice of Chinese politics. Three decades ago, he was denounced when Mao Zedong said: "Let 100 flowers bloom", now, he is leading a revived "100 flowers movement".

Much about Wang Meng appeals. He is a survivor and has an eclectic taste that takes in the likes of John Updike, Truman Capote, and John Cheever. Though he holds ministerial power, he humbly wants other writers "to think of me as a fellow writer", and will return to writing when his days in government are done.

Wang Meng is a symbol as much as a minister. Whatever

one hears about him walking the Communist Party line drawn by Deng Xiaoping, Wang is encouraging debate of sensitive issues such as literary freedom, and actively encouraging writers to speak their minds.

"The younger writers tend to be a little bit rash, while the older writers are still a little bit conservative", he says. "Scholars don't have to be worried about what they think and what they express".

The minister is a touch optimistic. It is still difficult for Chinese writers to have boundless confidence having witnessed the startling shifts of party policy in the past decade, and the more subtle tide changes of recent years. Freedom is at the flood now, but artists sense that the party could soon think it has all gone too far.

In Dengist times, the signs of clampdown are a controversial play that has closed early, an art exhibition that suddenly finds a pre-booked gallery has no space, or a book that has a prematurely short print run. Diplomats are still watching the arts closely as they tend to be one of the first hit by a conservative chill.

Wang Meng experienced such a chill in 1957 after writing the

short-story A New Young Man Arrives at the Organisation Department. This told of Lin Chen, a young and idealistic Party worker who arrived at the district party committee "filled with scared visions of a party worker's life", but found stifling bureaucracy and "fat-faced cadres" in a gunny sack factory.

Wang was labelled a "rightist" rather than a writer, and was not rehabilitated until 1979. Now he is at the top of the cultural bureaucracy.

"I have adopted a more realistic attitude to bureaucracy", he says. "It is not a good idea to overcome bureaucracy by writing novels. It is a better idea to get at it through my work and other social activities".

The 52-year-old was invited on to the party Central Committee in 1982 after having joined the party as a 14-year-old. He was appointed minister in June this year after party leaders apparently took many months to convince him that he was the right man for the job.

He is executive chairman of the Chinese Writers' Association, which claims the membership of almost all major writers. The Chinese news agency Xinhua evaluated his worth as

"a prolific writer who suffered frustrations" by noting after his appointment as minister that he has written more than 2.5m published words.

By definition, Wang Meng is part of the party structure, and so he is fortunate that the party has taken a more liberal stance on the arts. It realised that the output of writers and other artists since Communist rule began in 1949 has been generally appalling because of party pressure.

He maintains that Chinese artists have never had more freedom: "For instance the psychologist Freud has been published quite a lot in China. Now there is more and more discussion of humanism, equality, freedom and universal love", he says.

Asked about the case of an artistic director of a theatre company who complained that having to defend her last work from ongoing criticism was a great distraction from creating new works, Wang Meng said the phenomenon is "not bad". His meaning was that criticism is a healthy thing, but the criticism the director faces was more of the political than the creative kind.

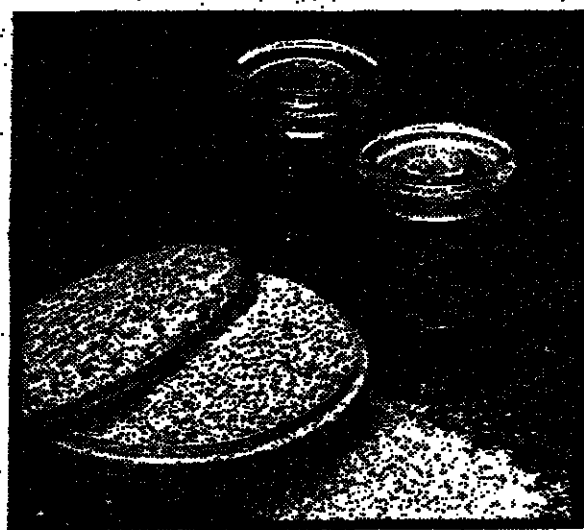
In some ways Wang is like his short stories. They are technically strong, often funny and charming, but have somewhat predictable conclusions about the Communist Party's virtue. China cannot claim to be virtuous in political satire, yet the minister believes that chairman Mao has been properly satirised, which is patently not true. The late chairman remains a very sacred cow.

While Wang Meng is at the helm of culture, writers can at least be assured that they have a minister who knows something about the craft, and who knows what it is like to have trust betrayed and what that does to an artist's confidence. He is appropriately cautious in his criticism and very public in his enthusiasm for what can be achieved.

His time as a minister will provide him insights and experiences that should be the stuff of many short stories if he returns to the life of a full-time writer, though he is not so certain.

"I am not sure whether I will write about this period", he says.

Robert Thomson



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Literary life

Ambition fuelled for first Nobel prize

AS PART of the drive to make Chinese literature an exportable commodity, the Chinese Writer's Association, a semi-official body whose members include virtually every major published author, organised the country's first international conference on contemporary literature.

The event attracted more than 50 Sinologists from 22 countries last month, as foreign scholars and translators met 37 Chinese writers and critics at the Jinshan petro-chemical complex's guest house on the outskirts of Shanghai.

Many Western Sinologists were intrigued by the fact that the high point was the appearance of Goran Malmqvist, Star of the Swedish Academy.

Wang Meng, the culture minister, and his fellow organisers both tolerated and encouraged discussion of questions that are still rarely asked openly in the Chinese press such as the problems of creative freedom, self-censorship and the pressures on Chinese writers to churn out new and increasingly faddish works.

If nothing else, the conference proved to many that Wang Meng, writer turned technocrat, is not only one of the most important and mercurial figures in contemporary Chinese intellectual life, but also that perhaps he more than anyone else embodies the qualities of the "new man" of Deng Xiaoping's China.

There were examples of the academic love for esotericism, with structuralist analyses of short stories and linguistic studies of peasant prose. But for many, the high-point was the appearance of Goran Malmqvist, star of the Swedish Academy and the man most likely to get China its first Nobel Prize for literature.

Malmqvist fuelled the ambitions of recognition-hungry

Chinese writers by claiming that contemporary Chinese writing compares favourably with the best literature in the rest of the world. This is a view that is certainly not shared by Western scholars less directly committed to the Nobel cause.

For all of his arduous dodging when asked which Chinese writers he thought would be contenders for the Nobel laurels, the professor unwittingly revealed that the small group of Chinese writers he is translating into Swedish could be front runners. These include Bei Dao, the mid-aged poet and ex-Red Guard, and Shen Congwen, the Septuagenarian novelist.

One of China's greatest living writers, he has declined to produce any works since the Communists came to power in 1949. Although the official Chinese reaction to all this was fawning—bagging the prize has become a matter of national pride—other Western Sinologists were not as impressed. Speaking after the Swede, the British scholar, W. J. F. Jenner told the Chinese writers and critics that they should be concerned only in writing for Chinese readers, and take no notice of foreign scholars and the opin-

ion of "a handful of North European cronies" whose taste in literature has generally proved to be faulty.

He did concede, however, that it was only a matter of time before the Chinese were awarded the prize, and that when this happens he would offer his congratulations, if for no other reason than a Chinese writer will make a great deal of money out of the deal.

Geremie Barne

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Cinema

New wave leaps out of the red

WITH A cinema-going audience of over 200m, the Chinese film industry should not have to worry about box-office receipts. But under the Government's economic reform policies the industry has had to start paying its own way after 25 years of being both red and in the red. Something of a crisis occurred in mid-1985, when elderly cultural bureaucrats realised that although the industry was beginning to pay for itself, ideological standards were being compromised and in some cases gleefully abandoned. A rash of love stories, cheap thrillers and flash detective movies highlighted the concerns. Then, when a small group of young directors started to produce "new wave" films, including the internationally acclaimed "Yellow Earth" (directed by Chen Kaige), they called for emergency action. Hoping to inject a little ideology in the works of the wayward film-makers, and to calm the conflict between the older film industry and the burgeoning television industry (which has two dozen stations and a nightly audience of over 200m), the Government forced an amalgamation of the two media giants last March, creating a new Ministry of Film, Broadcasting and Television.



Modern music is making an increasing impact in China.

vision. For film-makers it seemed as though the mixture of commercial trippery and avant-garde experiment they had been enjoying was to give way once more to a diet of political pap. In fact, the shake-up of the industry has so far had only a marginal effect. Propaganda-minded television bureaucrats have made little attempt to interfere in the labyrinthine complexities of film politics, and the fact that studios still have to pay their own way means that no one wants to push a political hard line and be held responsible for loss of real income. So, 1986 has seen a startling and often heterodox development of cinematic themes and styles. Here, the cinema of the absurd and epics Hollywood-style are now the order of the day. Huang Jianzhong's "Women of Good Family" has been a path-breaker in sexual candour. It shows the child bride system in feudal China whereby young women were married to pre-pubescent boys. The film chronicles the sexual frustrations and final rebellion of one woman and has much sexual symbolism. One of the most striking new films, "High School Girl Gone Lost," is the first to deal with the formerly forbidden zone of adolescent sexuality in a country where people are not supposed to have sex before marriage. Along with an increasing official tolerance of sexual emotions and realities has come an acceptance of mental aberration, prompting a spate of "theatre of the absurd" films, including the young director Huang Jianzhong's comedy "Black Cannon Incident."

The film tells of an engineer victimised as a spy by the prying party committee who base their suspicions on a cryptic telegram he sent to a friend asking him about a lost Chinese chess piece (a black cannon). A spy satire on party rule, the film first won grudging party approval and was recently given a number of Government awards. Though a shade too experimental for Chinese audiences, "Black Cannon Incident" was recently approved for international release and will be sure to make a mark on the film festival circuit, if for no other reason than it suggests that both Kafka and Orwell might have felt at home in Deng's China. An intriguing development in film over the past year has been the appearance of "Epics." Historical personalities such as the "Christian general" Feng Yuxiang and Sun Yat-sen are the heroes of big-budget blockbusters. Even war films, made on small budgets are more concerned with battle scenes, for years now have had more than a touch of Hollywood extravagance about them. A reason for this epic fad is that any number of film people believe fame and fortune will be theirs only when they can compete with Kurosawa. As for the popularity of these films, one has to look no further than the Dallas phenomenon to see that audiences, even those in Socialist China, are interested in lives, loves and adventures of the rich and famous, whether capitalist or revolutionary. The past year has seen only one noteworthy example of a "reform" movie - Yang Yanli's "1985-86 in Province T." It concerns a staunch and honest provincial official who falters when faced with the need to support political reform and abandon the feudal autocratic style of rule that has characterised officials in the past.

IN CANTON in the 1970s, people were so hungry for a change from their regular literary fare of stolid socialist realism that a copy of Dumas' The Count of Monte Cristo could be exchanged for a new bicycle. Only a decade or so later, their eyes can go into the city's state bookshops and purchase translations of Camus, Sartre and Freud and a wider range of domestic writings. For the less academic reader there are shao bao unofficial periodicals produced on shoestring budgets which frequently have more in common with western scandal sheets than with any of the more reserved official journals. Full of wonderfully lurid stories with titles like: How many Wives Did Chiang Kai-shek Really Have? and The Three Female Corpses Found in President Reagan's Backyard, these periodicals have been gaining ground on their state-subsidised counterparts, taking a slice of the market share, not to mention consuming scarce newspaper. Away from the spies and martial artists of popular literature, more serious fiction in China is moving into uncharted new territory as well. As the Cultural Revolution recedes, writers are taking literature closer to reality than at any point since 1949. That is not an easy task in a society where the bureaucracy has been accustomed to making periodic swoops on the literary world. Writers are expected to be mindful of their serious moral and educational mission and have been held firmly to account in the past for straying from the prevailing political course. Although Zhang Kangkang, a popular female writer, says, "some works are still liable to be criticized and censured", an increasingly experimental and vital literature is beginning to appear. Gone are the happy endings and heroes of revolutionary fiction. The writing of the mid-1980s is about ordinary people - the survivors of labour reform camps, embittered and nostalgic Red Guards and disillusioned officials. That such characters in fiction at all is no mean achievement. It is only a few years since the regime concentrated its energies on the goal which so preoccupied Mao - the remoulding of the human spirit. The political and social consequences of that vast experiment are, superficially at least, well known. Economic development was stalled, institutions of education closed and the fragile gains of a long and grim war of liberation left to hang in the balance. A substantial proportion of China's cultural heritage was destroyed forever. The chaos and unrest that stalked the country silenced writers and sent most into exile or worse. Many of China's major cultural figures - including Lao She, perhaps her greatest 20th century writer - were killed. Since the official repudiation of the Cultural Revolution in 1978, the survivors have been finding their voices again, finding ways of describing that troubled and fragile era and of producing a literature equal to the experience. Rumbling alongside the new writing has been a wide-ranging debate about humanism in literature. It is a topic that may sound dated by Western standards, but in China it represents

the most sustained questioning of orthodox theories of class struggle and the function of literature since 1949. One of the most accomplished advocates of the restoration of humanism in fiction is Zhang Xianliang. The world of labour camps and persecuted intellectuals is a familiar territory for Zhang. He spent 20 years on a labour reform farm and his book "Mimosa" was the first popular work to share that experience with the public. The losers and drifters of Zhang's fiction do not exactly behave like paragons of political virtue and frequently elicit sharp criticism from cultural bureaucrats. Zhang's latest work, Half of Man is Woman, has drawn fire for its explicit sex, unacceptable to either Marxist or Confucian traditionalists. But Zhang is one of a number of popular writers whose recent work contains elements that would have been unthinkable even as recently as three or four years ago. Established authors such as Shi Tiesheng are increasingly turning to exploring reality through satire, the absurd and the grotesque. And in perhaps the most interesting new work to appear in the 1980s, the younger new "Daoists" such as Ah Cheng, and film director Chen Kage draw upon the traditions of a much more ancient China to ask questions about the present. It is too early, perhaps, to pinpoint the real successes and failures in the reformed literary landscape of Deng's "second revolution." What is clear though, is that this unprecedented experimentation is taking place with a minimum of interference. The truce between politics and culture has even seen the appointment of a number of younger and cosmopolitan officials. This policy must make some of the more questioning of the nation's writers - frequently the target of vendettas and fabricated scandals - sigh with relief. Wang Meng Minister of Culture, was himself in the vanguard of the literary radicals before being elevated to the corridors of power this year. Exiled to the far western region of Xinjiang in the 1950s for writing works which dared to gently criticise the work-style of Party officials, Wang spent 20 years away from his native Beijing before returning to lead the ranks of the writers who appeared in journals such as Canton's Innovative Flower City. His appointment was followed this summer by the actor-director Ying Ruocheng as a Vice-Minister. Both men are equipped to evolve cultural policies which could create a more secure environment for the arts. Although in his speeches, the minister invokes the old traditions of social responsibility and warns against the "spiritual emptiness" of Western culture, he has committed himself to protecting creative freedom. Indications are that he intends to keep a low profile and try to reduce some of the divisions in the cultural world. If he succeeds, and even his detractors concede that he is a master tactician in balancing innovation and orthodoxy as he is likely to preside over the most important phase of writing since the New Culture Movement of 60 years ago.

Carole Murray



Chinese traditional painters at work.

Geremie Barme

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Ta'ersi Temple, Xining

Guanxi—the all-important connection

CHINA RIGHTLY has a reputation as a difficult place to do business, though the Government has realised that this image has contributed to the slump in foreign investment this year and is doing its best to streamline an awesome and often combative bureaucracy.

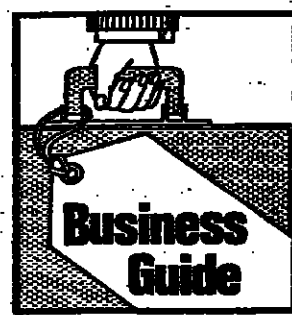
Connections or *guanxi* are all important, whether to arrange a suitable hotel room, to get a good interpreter or to meet the person who really makes contract decisions. Getting good *guanxi* is the result of ongoing contact with a potential Chinese partner, and of course, the more powerful the partner, the better the *guanxi*.

The trade representative office in one's home country is the first place to turn if you are a new China hand. If the trade officials are doing their job, they will have a stock of people they have cultivated and whose assistance could come in handy.

The traditional means of turning *guanxi* into your *guanxi* is by throwing a banquet, and entertaining your guests. The Chinese appreciate a good sense of humour and prefer that banquets are not the stilted occasions they so often are, so the more bonhomie the better.

Numerous China consultants have opened offices in Peking, as have many foreign banks. These are only too willing to help as their traditional banking business is severely limited in China.

The Ministry of Foreign Economic Relations and Trade, which has a consultancy arm called Consultech, is worth trying directly, as is the Bank of China, and the China Inter-



national Trust and Investment Corporation.

The Chinese are tiring of high-profile delegations comprising captains of industry. On these occasions, the Chinese roll out senior officials who rarely get involved in negotiations, and the middle management contact essential in getting a project off the ground is too frequently overlooked. While a senior official may seem to agree with a foreign executive that a deal is a good idea, the mechanics of the project will be handled by underlings. They will not be under any obligation to abide by the sayings of the senior official, who may have been polite or badly informed.

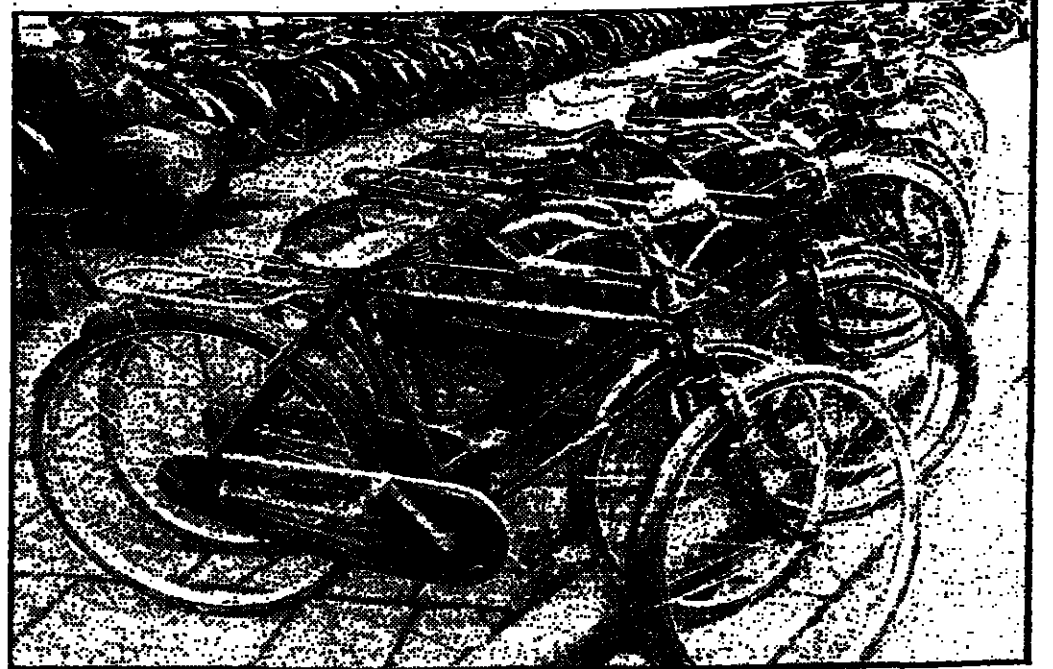
In the end, the lower official must present a package for approval and it is his responsibility to make sure the best deal has been squeezed out of the foreign partner.

Inexperienced and inept officials in the provinces have had their fingers burned by shifty operators, particularly from Hong Kong, so the Government has moved to close the "stupidity gap" by recentralising final approval for many contracts. Chinese negotiators are increasingly skilled, well-informed and formidable.

A mistake made repeatedly by foreign companies is that the interpreter hired to negotiate the deal is changed during the protracted negotiation process. Negotiations will suffer a serious setback as the new person must come to terms with the complexities of what has come before.

An underhand tactic used by some Chinese negotiators is to intimidate interpreters and consultants hired by foreign companies with comments like: "You are Chinese, why are you working against us?" It even happens to overseas Chinese, so check to see if such pressure is being applied and reassure your employee.

Foreign companies in China are often frustrated by the tunnel vision of some departments with whom they are not famil-



How to get about in Shanghai—take a bike

lar. The Government is encouraging a horizontal view but the bureaucracy is still basically looking after its own backyard, and the best recourse is to ask the most powerful official you know to intercede.

A West European company involved in a Shanghai joint venture had several protracted problems solved after a chance banquet meeting between its manager and a vice-mayor, who ordered that phone calls be made to the belligerent bureaucrats in question.

Communications. Communications are still a problem in most Chinese cities, though the Government has put great emphasis on developing telephone and telex networks. More hotels are installing telex, which is generally the quickest means of getting a message to the outside world. Operator-connected international calls are more efficient than a year ago, with a wait of between 15 minutes and several hours to be expected.

Several hotels in Peking and the far south have introduced international direct dialing. It is often difficult to get a line, but the quality is generally much better than the operator-connected lines.

Hotels. When in Peking the most com-

fortable places to stay are the Sheraton Great Wall (500-5566) at about \$US120 a night, and the Jiangnan Hotel (500-2252) at about \$100 a night. The Great Wall is on the east side, about 15 to 20 minutes drive from the centre of town, while the Jiangnan is on the city's main street, Chang An, and is better positioned.

The most interesting place to stay is the Peking hotel (500-7766), not far from Tiananmen Square and the central shopping district. Chinese enterprises often have a quota of rooms, so a host may arrange a booking for you. A single room is about \$65 while a suite ranges from \$150 to US\$220.

Travel. Travel between Chinese cities is difficult, with aircraft fully booked up to a week in advance, so ask your host organisation or potential partner or Peking representative to prebook. It is difficult to buy a ticket from Shanghai to Guangzhou in May, Peking, and is best done immediately on arriving in Shanghai.

There is a little-known stand-by counter at Shanghai Airport to the right of the domestic check-in area, and at Peking Airport at the far left of the domestic check-in stations. It is difficult to find, so ask for advice at the

terminal. It is also worth going to the airport in most Chinese cities even if told there are no seats for several days. Seats are often held on flights, so a show of theatrics that conveys the urgency of a mission and unswerving persistence will sometimes be effective.

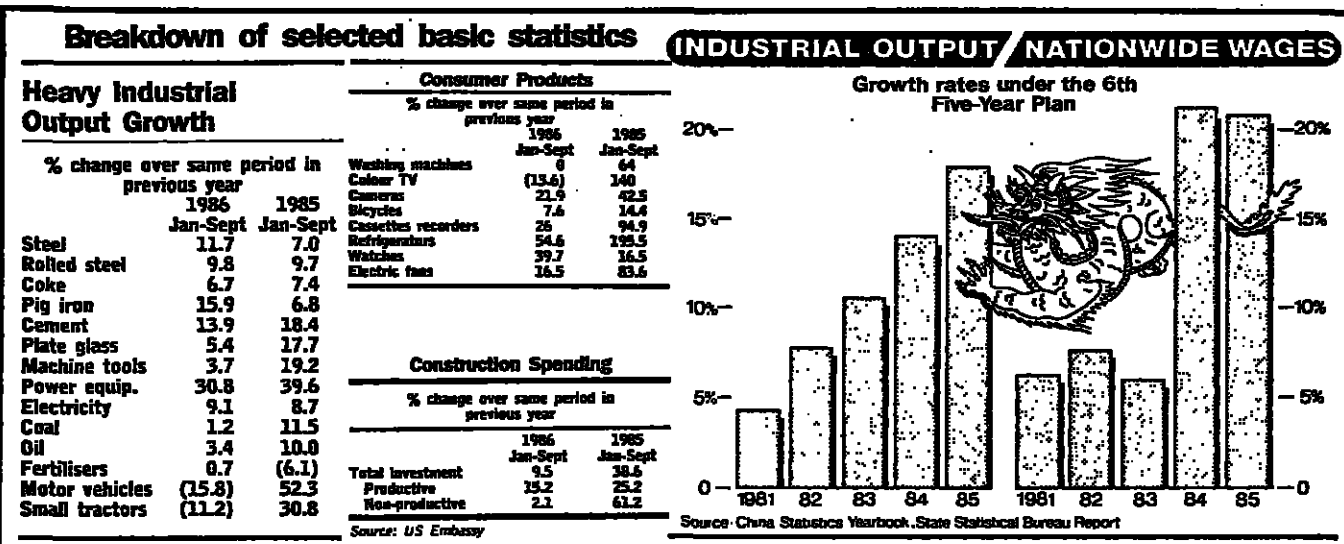
A car with driver can be hired for a day for about US\$27 from the Shoudu Taxi Corporation (62-1044) or the Zhongbei Taxi Corporation (43-4441). The bigger the car the bigger the charge.

Interpreters. Interpreters can be hired in Peking from the Foreign Enterprise Staff Corporation (FESCO) on 500-1731 for about \$30 a day.

Climate. The north is bitterly cold from late November to March (as low as minus 30 deg C in the far north), pleasant during a short autumn and spring and warm to hot in summer (30 to 35 deg C). The south is warm to hot during summer and mild during winter.

Winter is a good time for doing business in the north. If nothing else, it is a show of keenness, and officials' schedules are not so crowded with appointments.

Robert Thomson



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